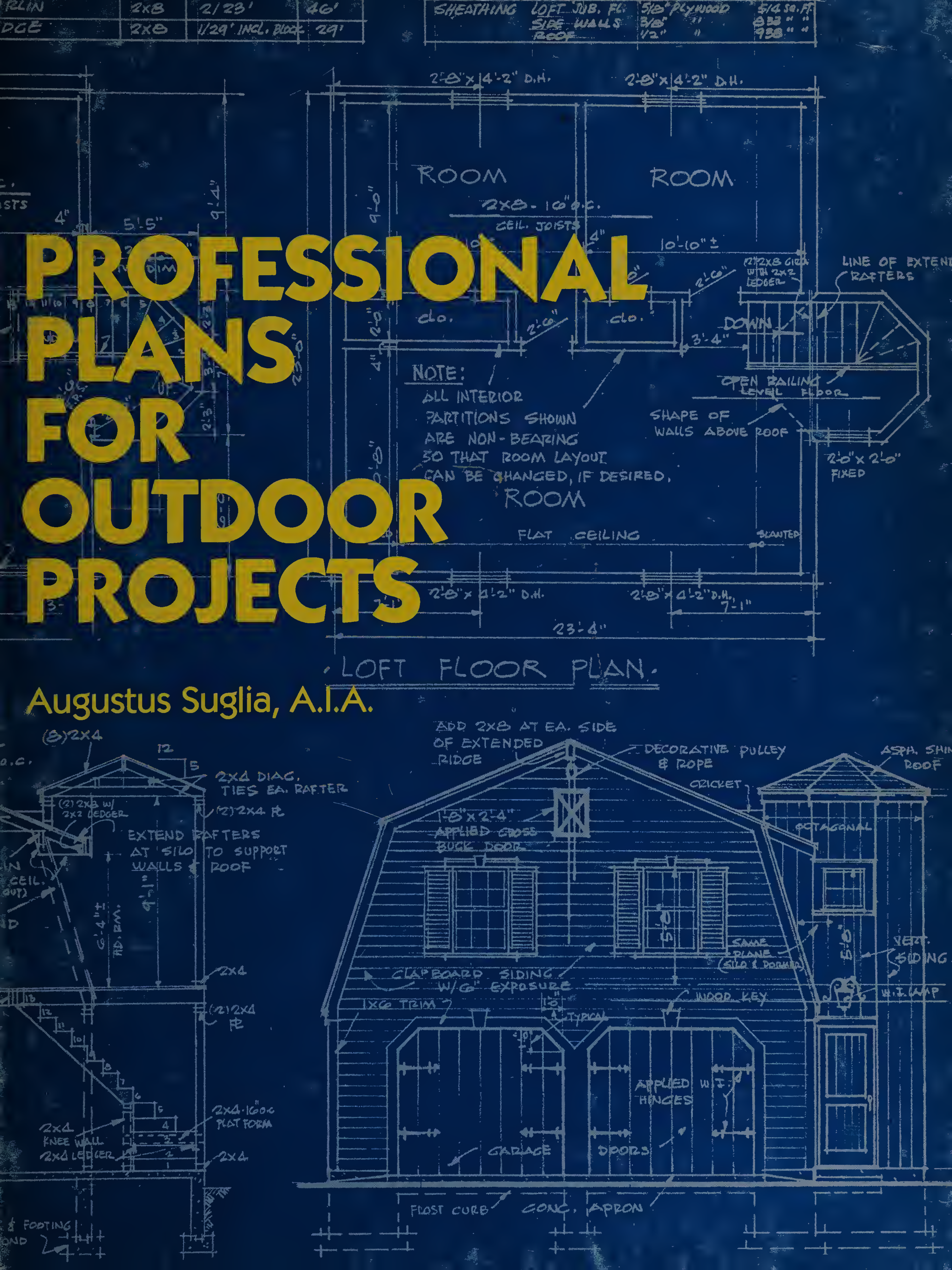
# PROFESSIONAL PLANS FOR OUTDOOR PROJECTS

Augustus Suglia, A.I.A.



# PROFESSIONAL PLANS FOR OUTDOOR PROJECTS

Augustus Suglia, A.I.A.

If you are handy with tools and can read a plan, you can build a tool shed, barbecue, gazebo, playhouse, solarium, even a Gambrel Roofed "Barn" or Tudor Cottage Garage with living/working/storage room in your backyard.

This handy ideabook contains plans for 23 uniquely practical projects designed to adapt easily to your specialized needs. The father of seven children in various age brackets, Augustus Suglia understands the need for easily accessible storage and has designed places in each of his plans to fit all those large and small items – bikes, tools, lawn mower, toys, snowmobile, sports equipment, gardening supplies – that people are likely to own. This varied collection of projects for the non-professional includes both simple jobs that can be finished in a day, or a weekend, and more extensive constructions designed to accommodate one or two cars and provide extra living space as well. Although they require substantial investments in time and materials, the "garage" projects can be adapted for later use as a summer residence, for year-round occupancy, or even as an income-producing, rental apartment.

Each project includes complete floor plans and elevation and cross-section diagrams with all construction dimensions for the builder's information. Lists of materials are provided so that you can get cost estimates from suppliers and order what you need. By consulting the dimensions detailed in the plans, lumber can even be ordered pre-cut to your specifications and ready for use.

If ordered individually, the 23 plans in this collection would cost seven times the purchase price of this volume. *Professional Plans for Outdoor Projects* is the perfect book for every backyard carpenter.

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# PROFESSIONAL PLANS FOR OUTDOOR PROJECTS

Augustus Suglia, A.I.A.

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## Editor's Preface

The plans we have collected for this book are professional building drawings for medium to larger structures within the reach of the non-professional carpenter. They were designed by Augustus Suglia A.I.A., a registered practicing architect with 26 years of experience in residential building. In addition to being a member of the American Institute of Architects and licensed by both the states of New York and New Jersey, his qualifications are certified by the National Council of Architectural Registration Boards.

Some of these plans show how to construct fairly simple, weekend projects for the backyard. Others, like the garages in the back of the book, take some substantial investments in time and materials costs. But most of those are designed so they can be adapted and finished as residences, for summer vacations or year round. Even keeping the garage space, most of the plans have living accomodations built into them that could become an income-producing rental apartment. The house pictured on this page was built by a fellow in Virginia taking off from plan Number 19 in this book. Although these plans are drawn by a professional, details of critical spots are shown so a non-professional can tackle the project successfully if he can handle tools and knows how to read a plan.



We think you will find that these structures of Augustus Suglia's are unusually practical. As the father of seven children in various age brackets, he designs plenty of storage in the handiest places and with dimensions that fit the items people would be likely to store there as an everyday, practical matter. His residential designs—from a playhouse to a full home—put every square foot to good use yet they avoid bottlenecks because he seems to have thought through the most likely traffic circulation patterns between adjacent spaces. We expect, too, that you may be pleasantly surprised at the way the construction cost per square foot works out. These designs minimize materials waste without sacrificing their structural integrity, practicality or good looks.

We hope that you and your family will have a good time living in and around some of these projects and that you will enjoy putting them together.

The Editor

Augustus Suglia Architect
235 East 45th Street New York, N.Y., 10017

Dear Home Owner:

Thank you for your interest in these project plans.

These plans are designed so that they can be easily adapted to existing conditions in your home. Each plan includes a list of materials which will enable you to go to your local supplier (lumber yard, etc.) and order everything that is needed to complete the project. Detailed dimensions are shown on the drawing so that all lumber can be pre-cut by your supplier.

Before you get started, the following steps should be taken to insure the best results:

1. If your project is an addition to the exterior of your home, check with your municipal building department to make certain that the project does not violate any setback requirements for your lot. Often exterior construction projects require a building permit. It can be obtained from your municipal building department.

2. If the project requires financing, show the plan to your local bank or savings and loan association with an estimate of construction costs based on material costs and contractor's fee. Also check your mortgage for an open-end clause that will permit you to re-borrow against the original principal.

3. You may wish to construct the project yourself but if electrical, plumbing or heating jobs are involved, it is strongly advised that you have this work done by contractors in these trades. Check with your local building department. The building code may require inspection approval before any cover-up work can be completed.

4. Be sure to check out problems that may be caused by the addition of an improvement, such as overloaded electric circuits, the need for relocating outlets, etc.

5. Order material in advance, assembling everything you need before you begin work on your project. Even standard materials are not always stocked and may need to be ordered for you. Special orders can take up to 8 weeks for delivery.

Best wishes for a successful undertaking. When your project is completed, we would like to have a snapshot of it and hear from you about what you liked about ahead of time in my plan.

Cordially,

Augustus Suglia
Augustus Suglia,
Architect

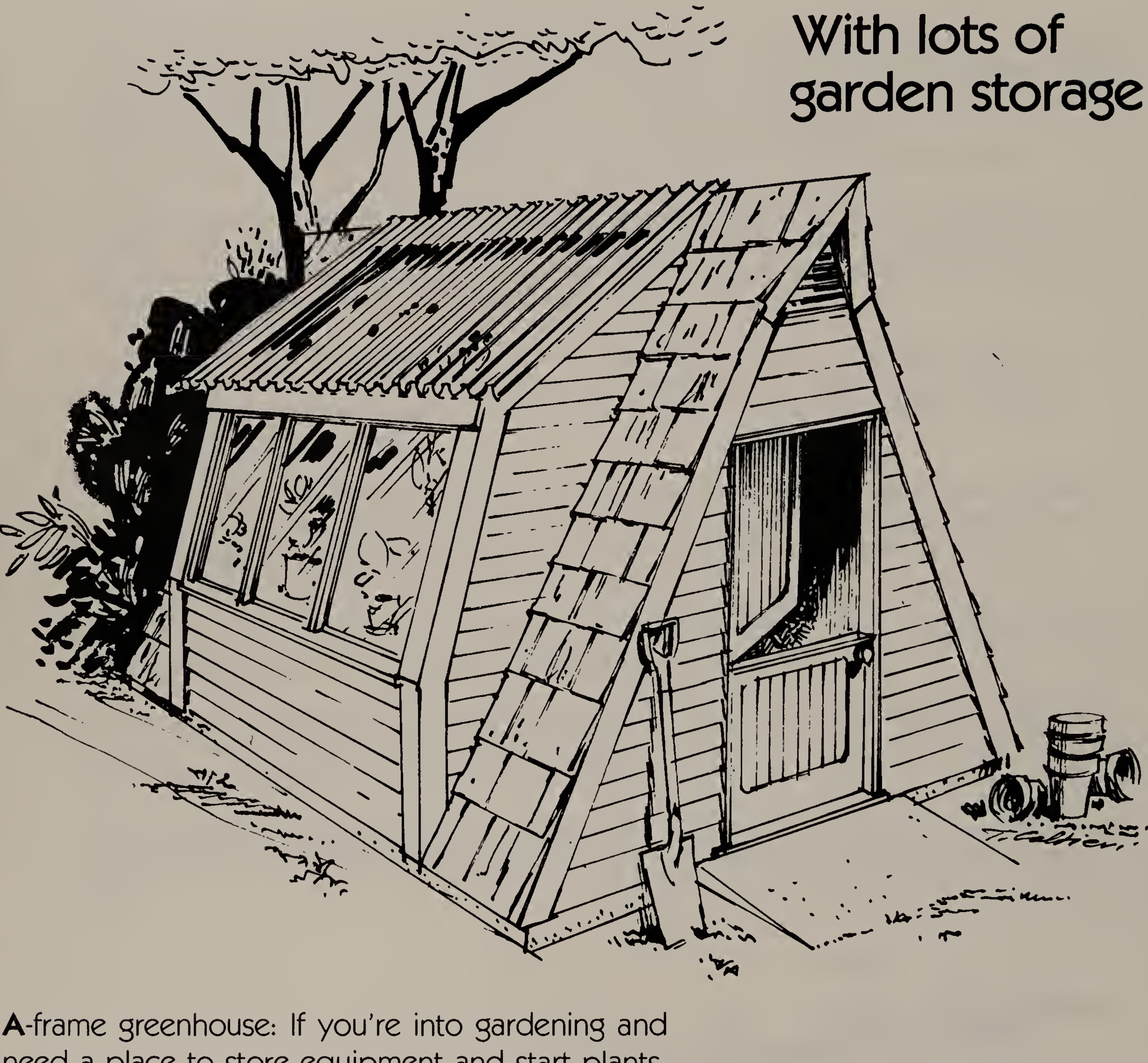
# WORKSHOPS & GARDEN SHEDS

(also for tools, cordwood or small dogs)

# 1.

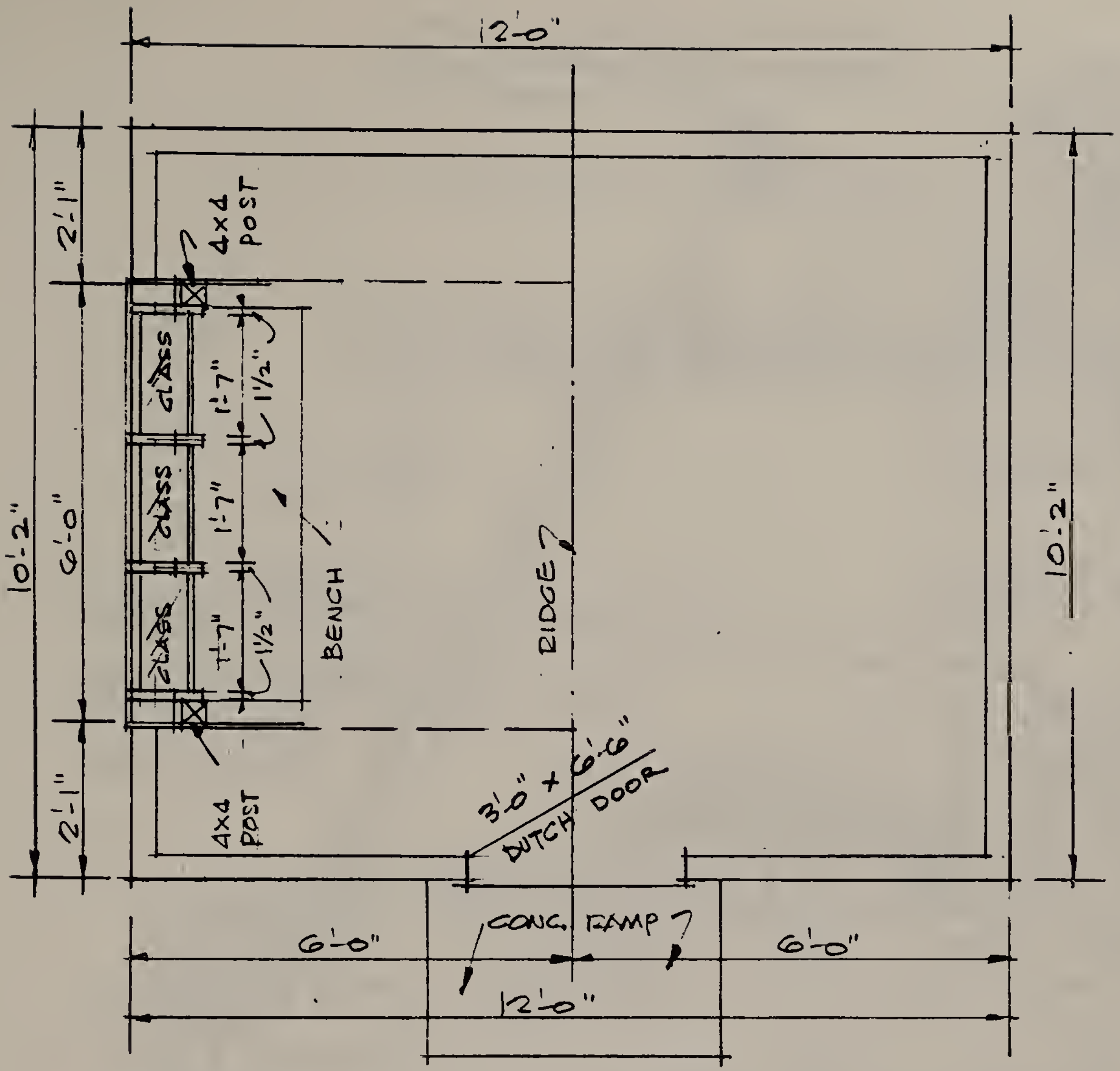
# BAY WINDOW GREENHOUSE

## With lots of garden storage



**A**-frame greenhouse: If you're into gardening and need a place to store equipment and start plants, this attractive A-frame greenhouse could be the answer.

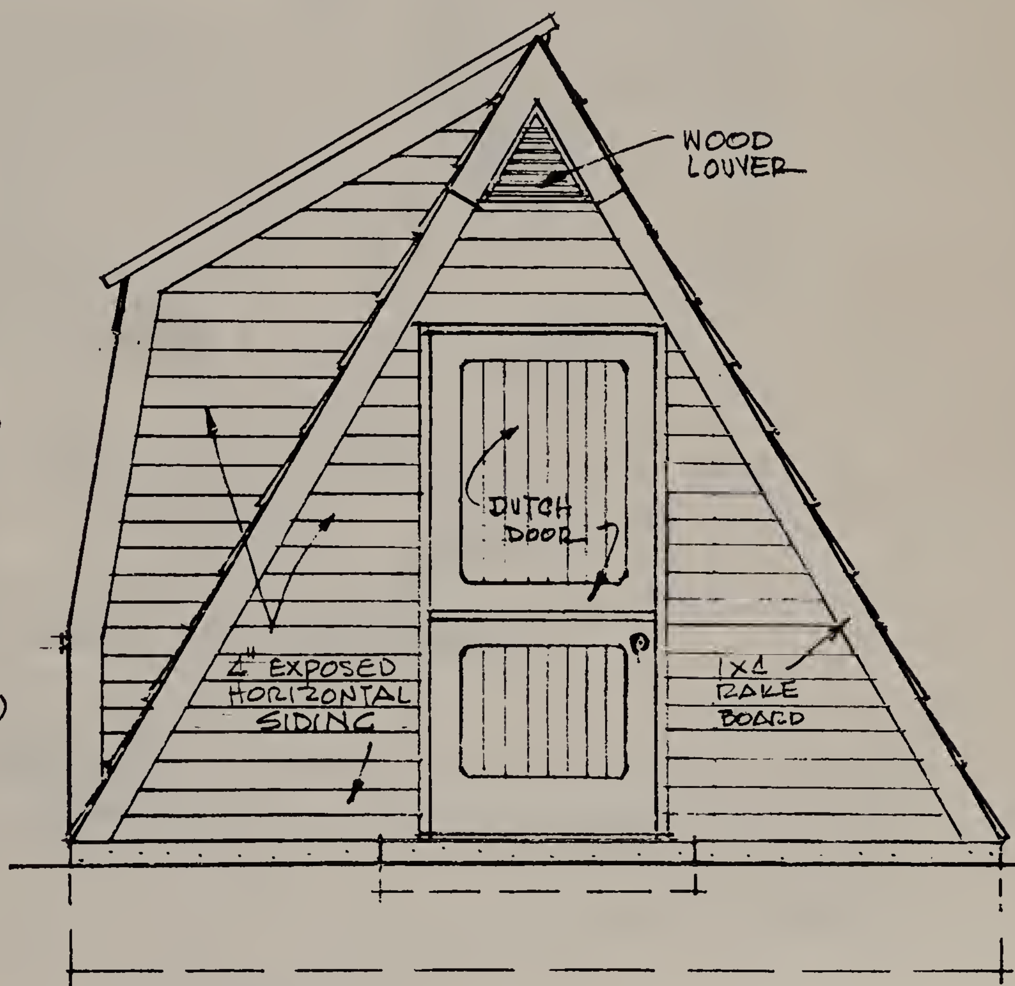
Plastic roof over plant section allows plenty of sunlight. Work bench is built into opposite side. Greenhouse is 12' wide; 10'2" deep; 7' high.



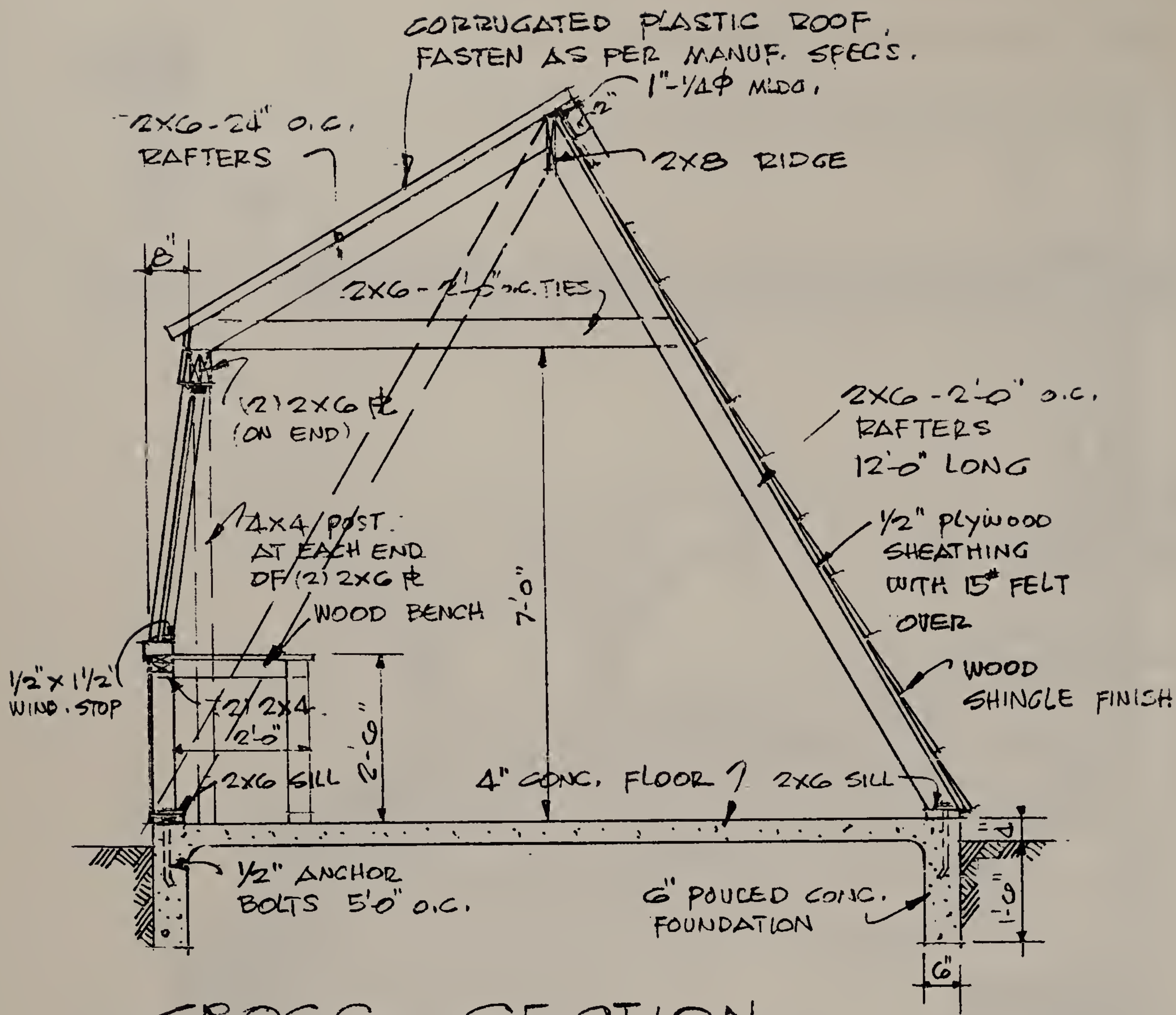

.PLAN.

## MATERIAL LIST

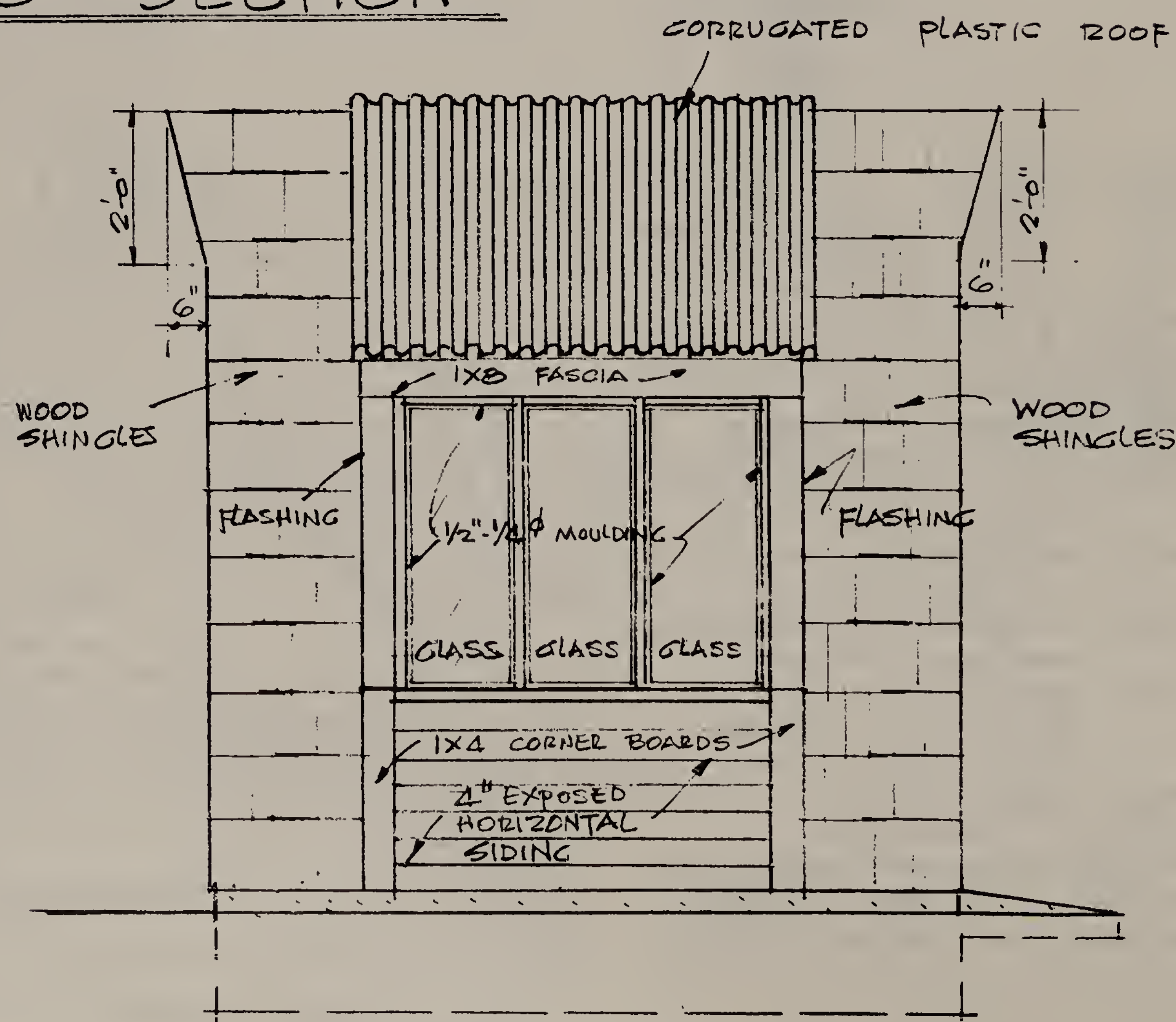
| | | |
|---|---|---|
| 10 | 2X6 | 12' LONG RAFTERS |
| 4 | 2X6 | 7' LONG RAFTERS (CUT TO FIT) |
| 4 | 2X6 | 8' LONG CROSS TIES |
| 9 | 2X4 | 10' LONG STUDS (FRONT & REAR) |
| 7 | 2X4 | 8 LONG STUDS WINDOW DORMER |
| 44 | LIN. FT. | 2X6 SILL |
| 2 | 2X6 | 6' LONG PL OVER WINDOW |
| 2 | 2X4 | 6' LONG PL UNDER WINDOW SILL |
| 26 | LIN. FT | 2X4 WINDOW FRAME (FINISHED 4 SIDES) |
| 10'-2" | | 2X8 RIDGE BOARD |
| 180 | SQ. FT. | 3/8" PLYWOOD, WALL SHEATHING |
| " | " " | CLAPBOARD SIDING |
| 192 | SQ. FT | 1/2" PLYWOOD ROOF SHEATHING |
| " | " " | WOOD ROOF SHINGLES |
| 26 | LIN. FT. | 1/2"x1 1/2" WINDOW STOP |
| " | " " | 1/2"-1/4φ " MOULDING |
| 1 | | 5'-0"x4'-0" WINDOW GLASS (CUT TO FIT) |
| 10 | 1/2"x16" | ANCHOR BOLTS |
| 2 | 4"x4"x 7'-0" | WOOD POSTS |
| 3 | 2'-0"x7'-0" | CORRUGATED PLASTING (ROOF) |
| 1 | 3'-0"x6'-6" | DUTCH DOOR + HARDWARE |
| 2 1/3 | SQ. YARDS | POURED CONCRETE 1:3:5 MIX. |




- FRONT -




·CROSS SECTION·




·SIDE·

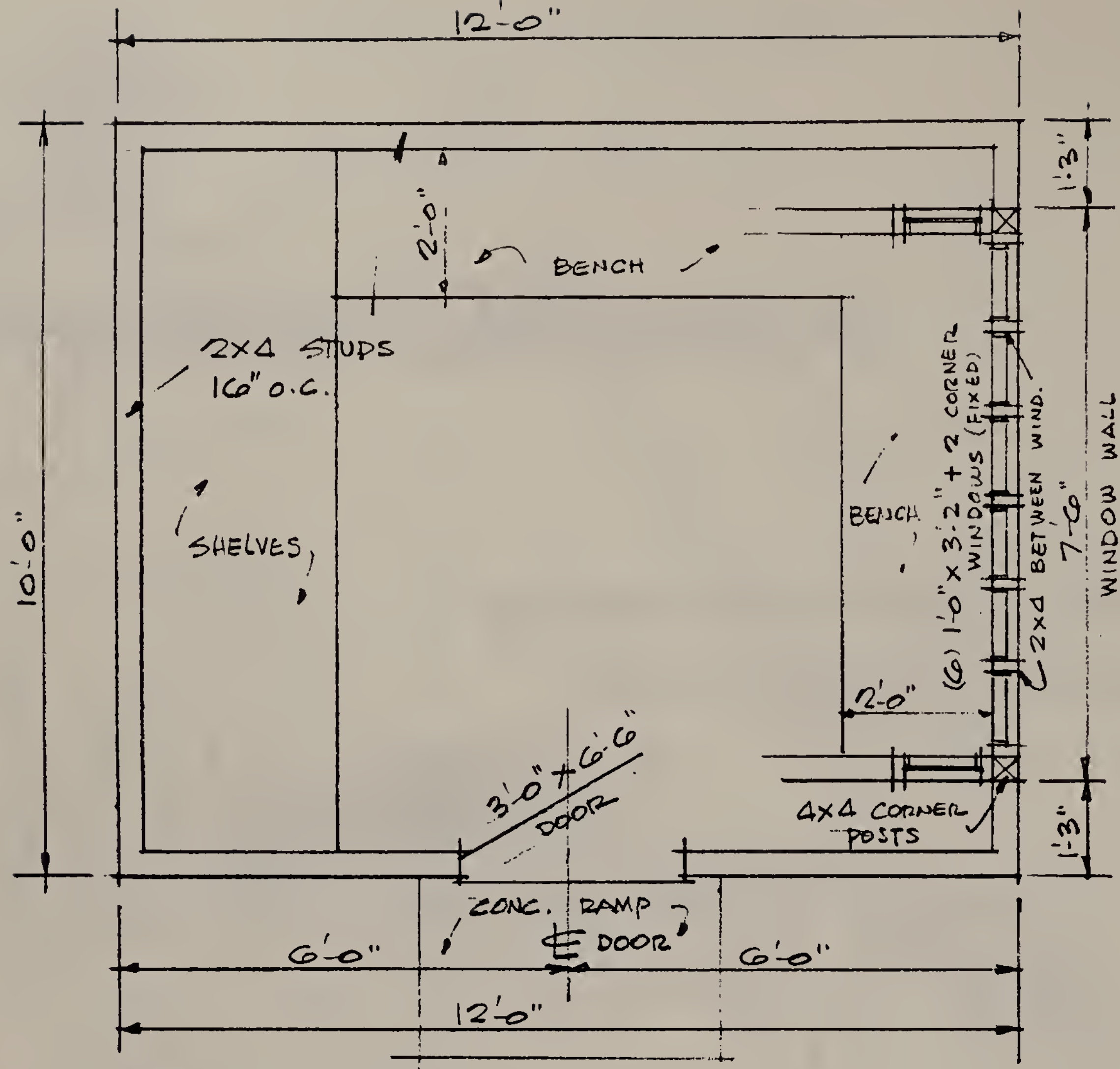
# 2.

# DORMERED A-FRAME

## With clapboard siding and a shingled roof



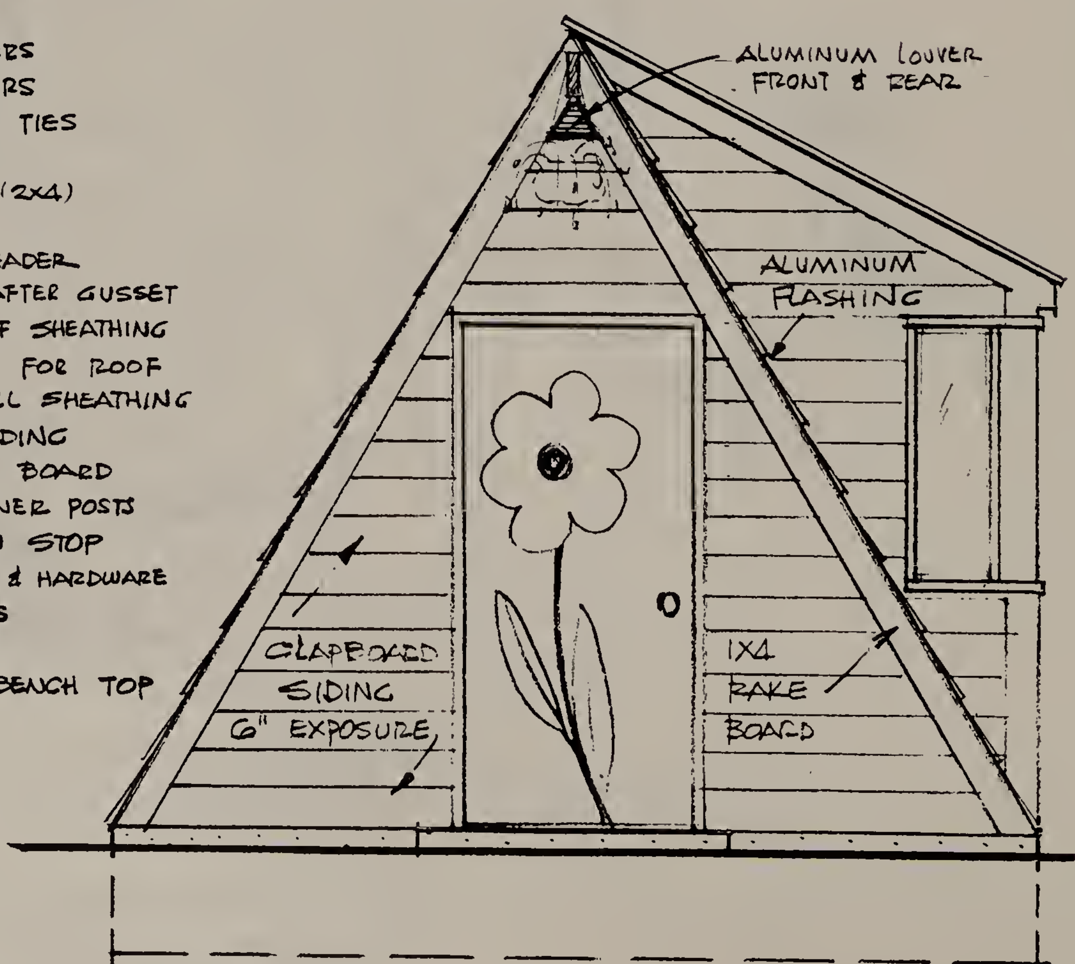
**C**apital 'A': A 7-foot A frame is the heart of a solarium-storage shed. Corrugated plastic panels make an economical sun roof, wood parts are stained or painted and shingles cover the frame. Building plans show shelves in 12x10-foot shed.



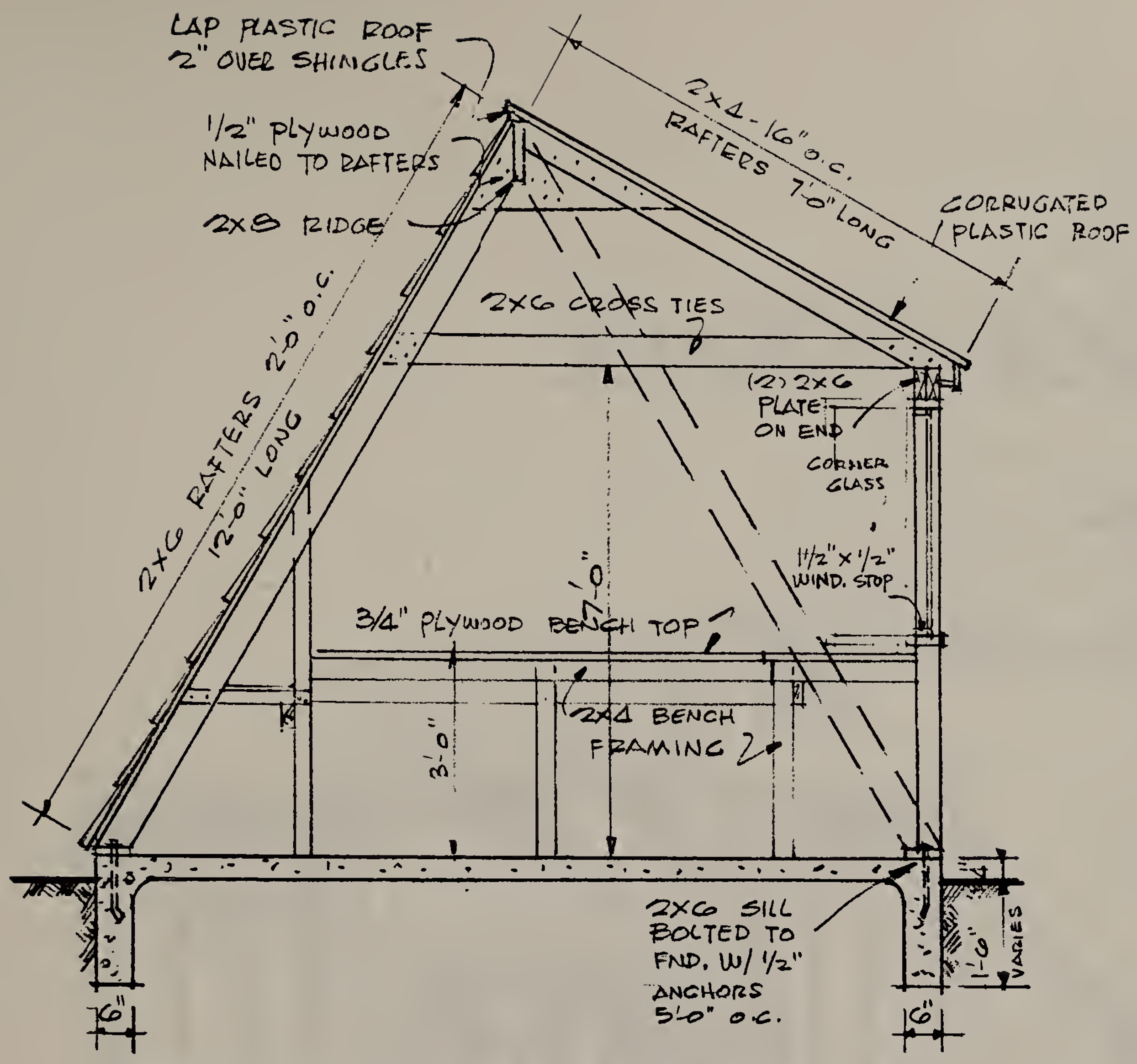

PLAN

## MATERIAL LIST

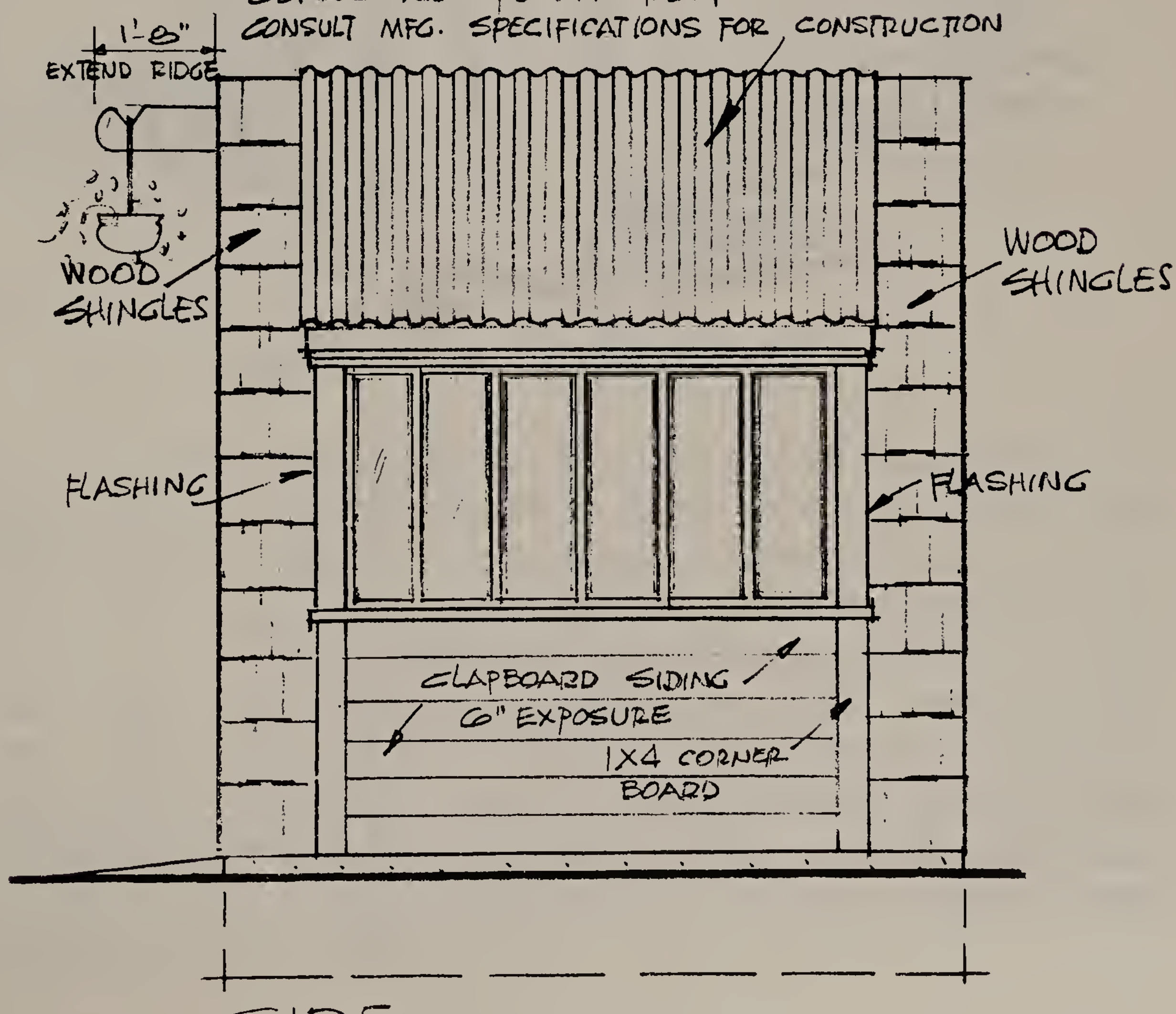
| | | |
|---|---|---|
| 10 | 2X6 | 12' LONG RAFTERS |
| 7 | 2X4 | 7' LONG RAFTERS |
| 8 | 2X6 | 8' LONG CROSS TIES |
| 33 | 2X4 | 8' LONG STUDS |
| 52 | LIN. FT. | BENCH FRAMING (2X4) |
| 44 | LIN. FT. | 2X6 SILL |
| 2 | 2X6 | 7'-6" WINDOW HEADER |
| 1 | 1/2"-4X8 | PLYWOOD FOR RAFTER GUSSET |
| 144 | SQ. FT | 1/2" PLYWOOD ROOF SHEATHING |
| 144 | SQ. FT | WOOD SHINGLES FOR ROOF |
| 180 | SQ. FT | 1/2" PLYWOOD WALL SHEATHING |
| 180 | SQ. FT | CLAPBOARD SIDING |
| 1 | 2X8 | 12' LONG RIDGE BOARD |
| 2 | 4X4 | 6'-6" LONG CORNER POSTS |
| 64 | LIN. FT. | 1/2" x 1 1/2" WINDOW STOP |
| 1 | 3'0" x 6'6" | EXTERIOR DOOR & HARDWARE |
| 8 | 1'-0" x 3'-2" | WINDOW GLASS |
| 10 | 1/2" x 10" | ANCHOR BOLTS |
| 44 | SQ. FT. | 3/4" PLYWOOD BENCH TOP |




FRONT




· CROSS SECTION ·

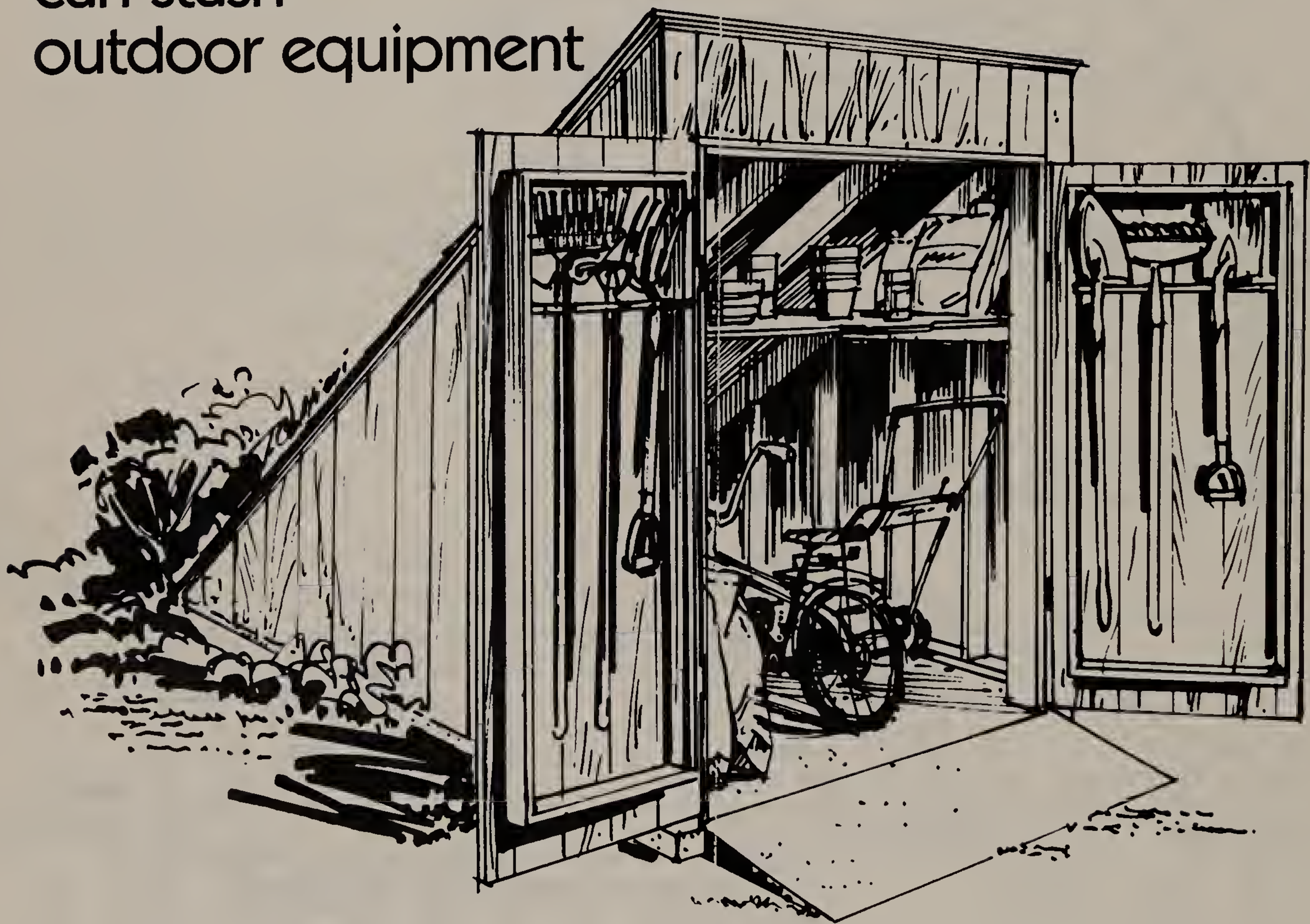



· SIDE ·

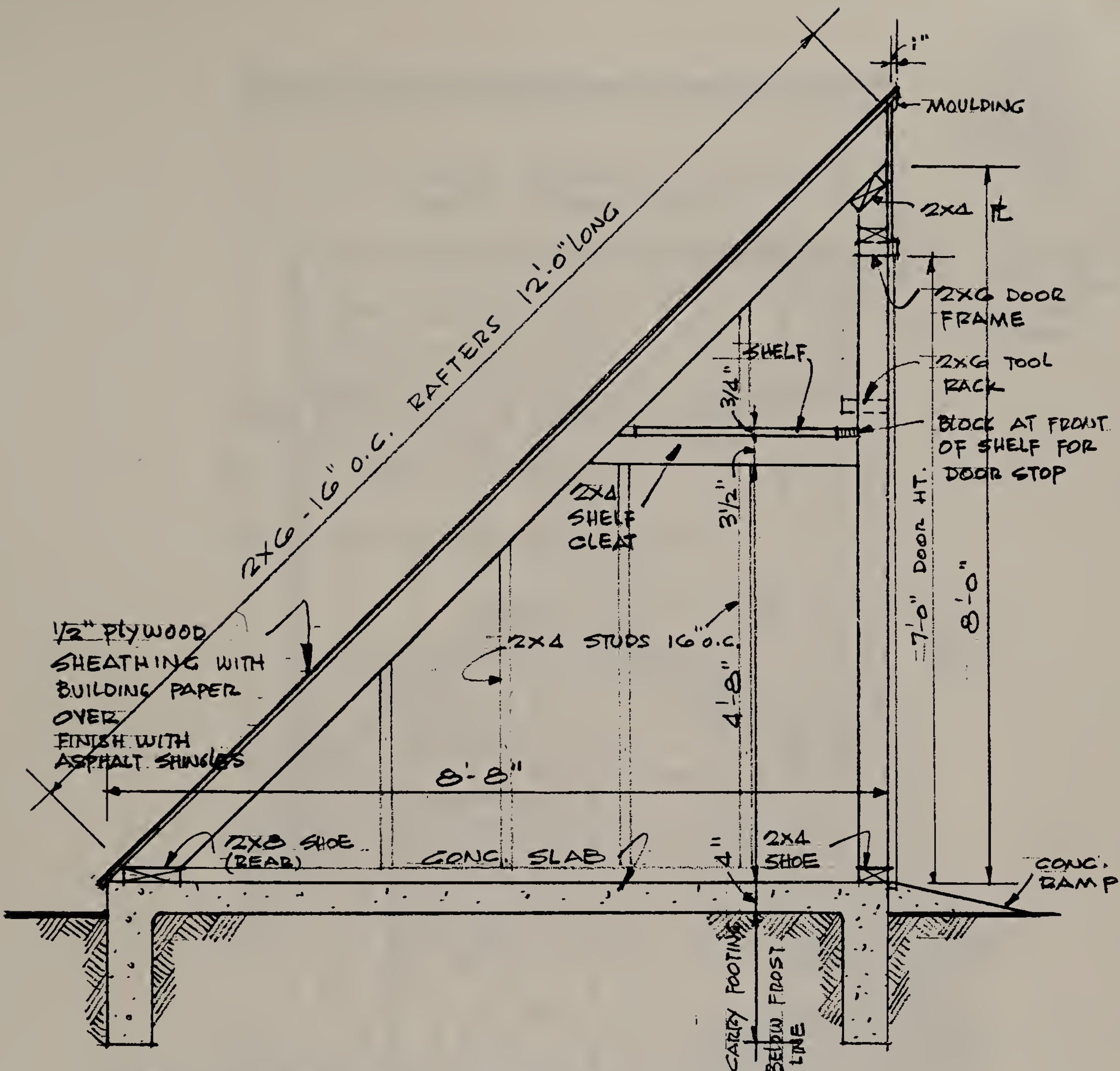
# 3.

# SHED ROOF STORAGE

## Handy shed can stash outdoor equipment



**S**torage shed plan: If it's so crowded with gardening gear, bicycles, and other outdoor equipment, that you can't use your garage to park your car, it's time for a change. Declutter the garage by building a shed. It's 7 feet wide by 8 feet, 8 inches deep by 8 feet high at front. Two doors swing open to give you full access to supplies. Built-in racks on doors hang gardening tools; shelf across width of shed can hold potting soil, paint cans, other supplies. Ramp at front makes it easy to wheel mower or bicycle in or out.



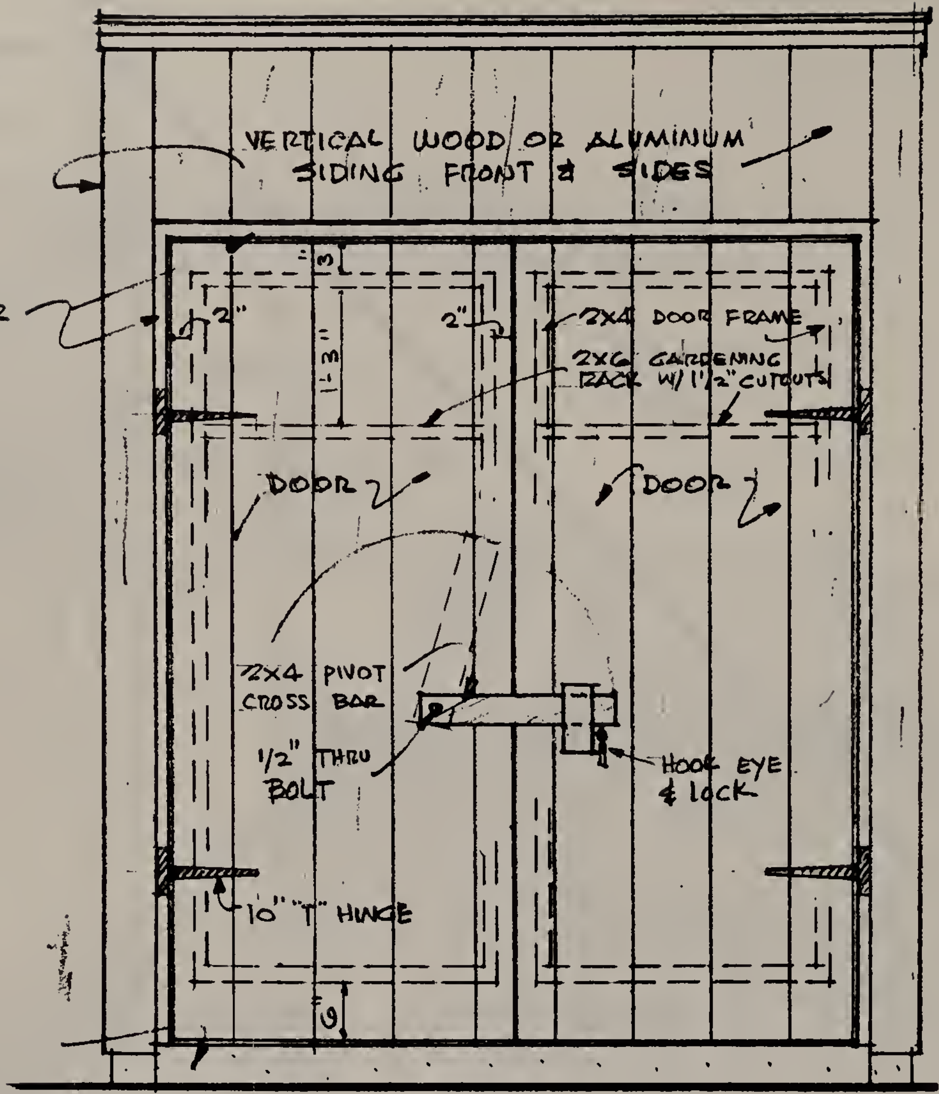

CROSS SECTION

## MATERIAL LIST

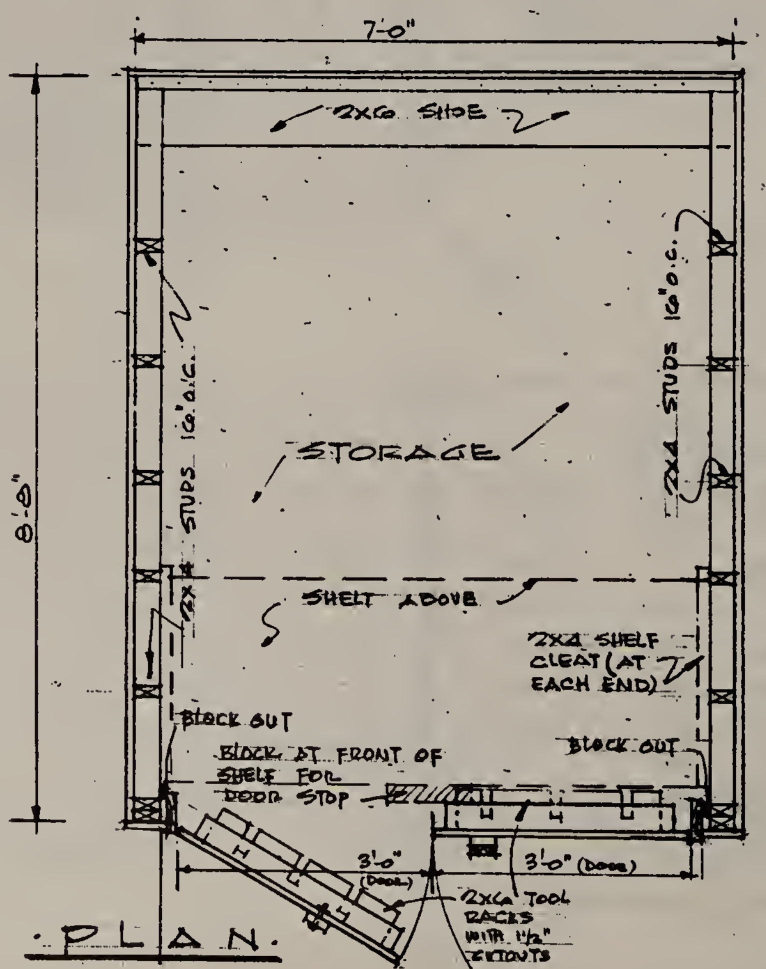
| LOCATION | SIZE | AMOUNT | LIN. FT. |
|---|---|---|---|
| STUDS | 2x4 | 12/8' | 96 |
| PLATES & SHOE | 2x4 | – | 34 |
| SHOE @ REAR | 2x6 | 1/7 | 7 |
| RAFTERS | 2x6 | 5/12 | 60 |
| DOOR FRAME | 2x6 | 3/8 | 24 |
| INSIDE DOOR FRAME | 2x4 | 6/7' | 42 |
| | 2x6 | 2/3' | 6 |

**SHEATHING & FINISHING SQ. FOOTAGE**

| | |
|---|---|
| SIDE WALLS | = 133 SQ. FT. |
| ROOF | = 86. SQ. FT. |




ELEVATION.




PLAN.

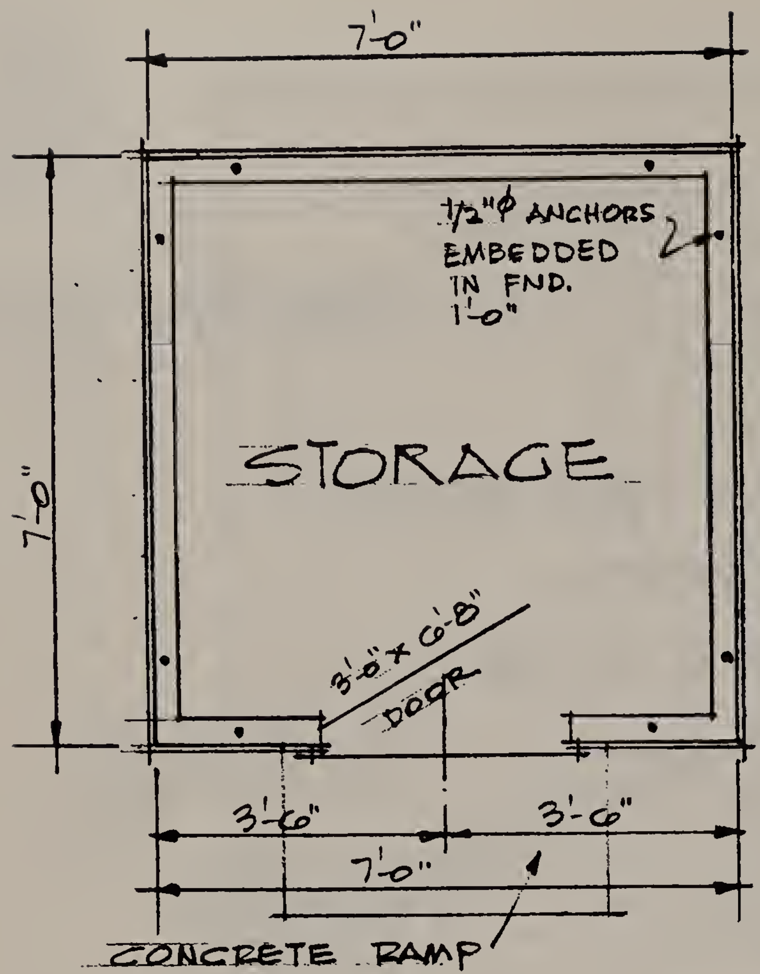
# 4.

# BARN SHED

## The gambrel roof lends a country feeling to practical storage



**S**torage shed: Designed to store bicycles, mower and other equipment this 7 by 7 foot shed has a ramp for easy access. Shelves can be added inside for smaller aids or garden supplies. Vinyl siding or aluminum is suggested to keep the shed maintenance-free.

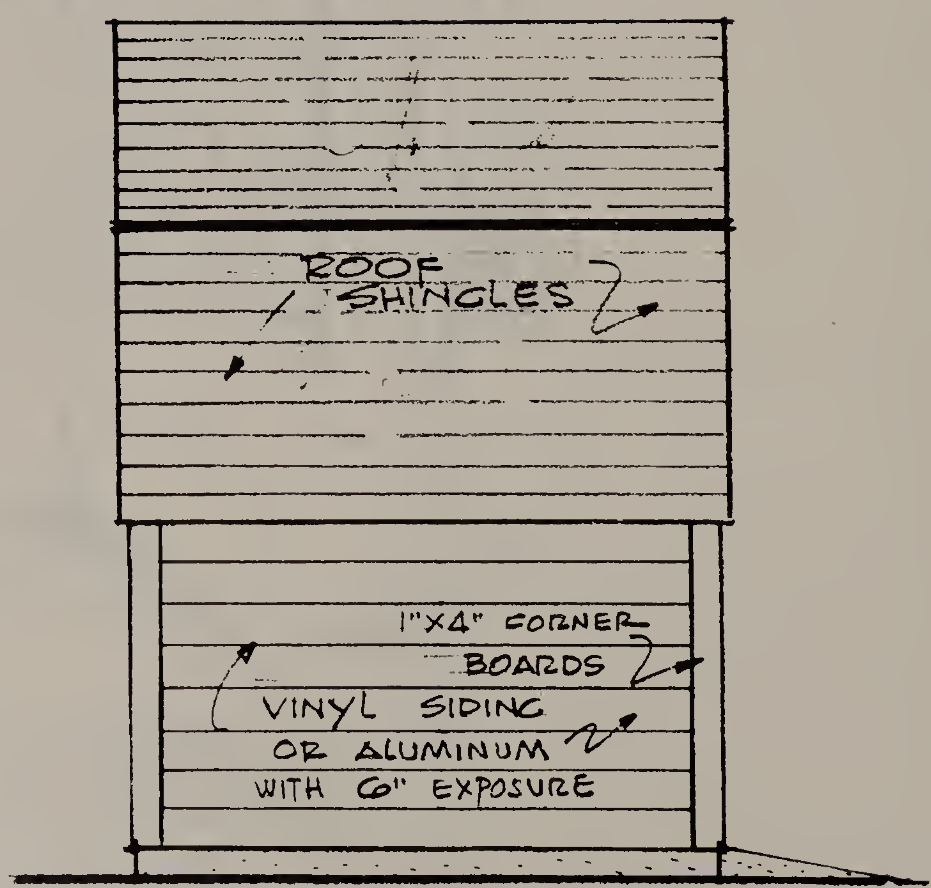



PLAN.

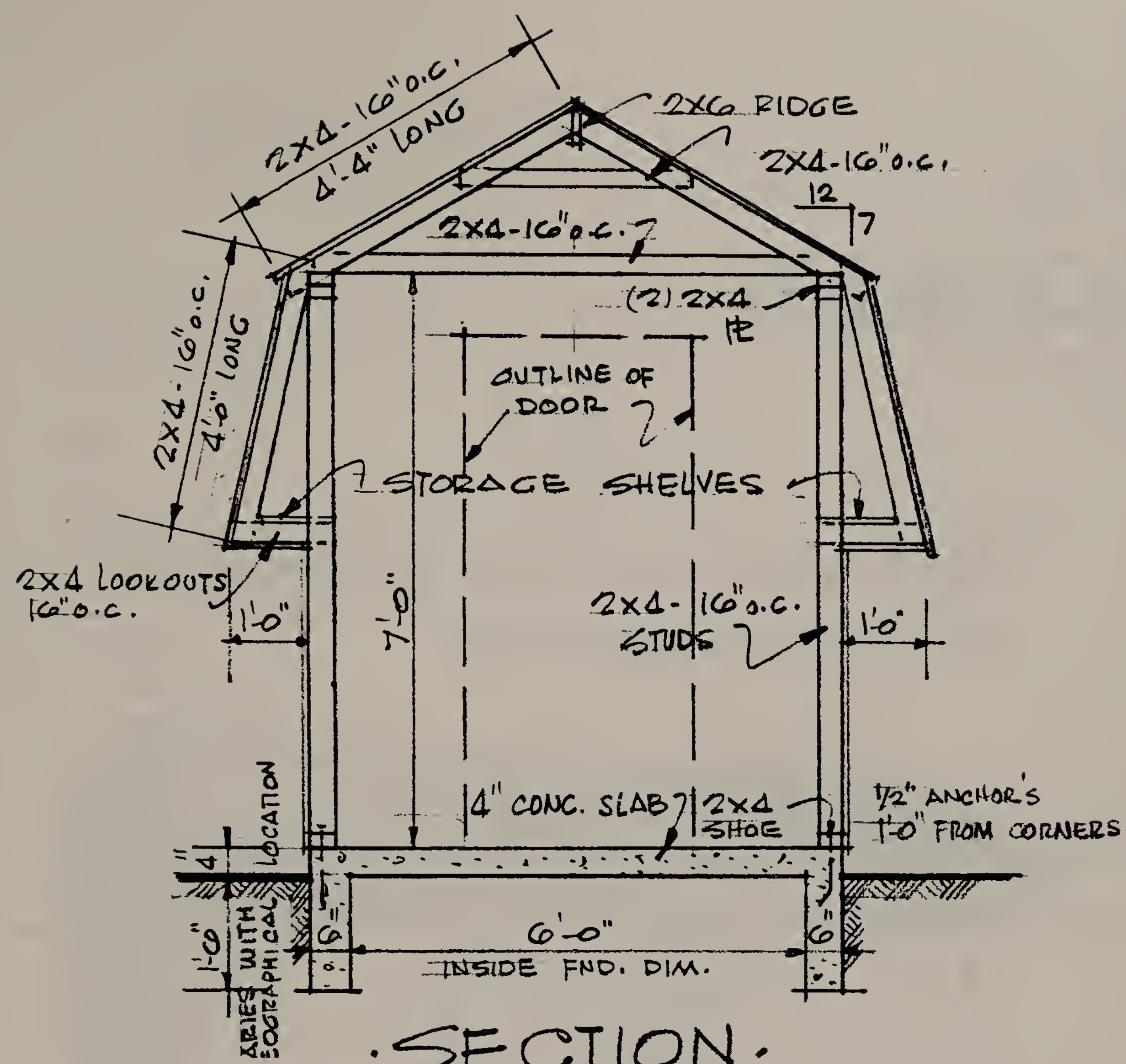
| FRAMING LUMBER LIST | | | |
|---|---|---|---|
| LOCATION | SIZE | AMOUNT | LIN. FT. |
| STUDS | 2"x4" | 20/7' & 10/2' | 90' |
| PLATES, SILL | 2"x4" | 12/7' | 84' |
| ROOF RFTS. | 2"x4" | 10/4'-4" | 43' |
| SIDE RFTS. | 2"x4" | 10/4' | 40' |
| CEIL. JOISTS | 2"x4" | 10/7' | 70' |
| COLLAR BMS. | 2"x4" | 10/3' | 30' |
| LOOKOUTS | 2"x4" | 10/1' | 10' |
| RIDGE | 2"x6" | 1/7' | 7' |
| DOOR | 3'0"x6'8" | 1 | — |

SHEATHING & FINISHING
SIDE WALLS 3/8" PLYWOOD = 162 SQ.FT.
ROOF 1/2" PLYWOOD = 112 SQ.FT.

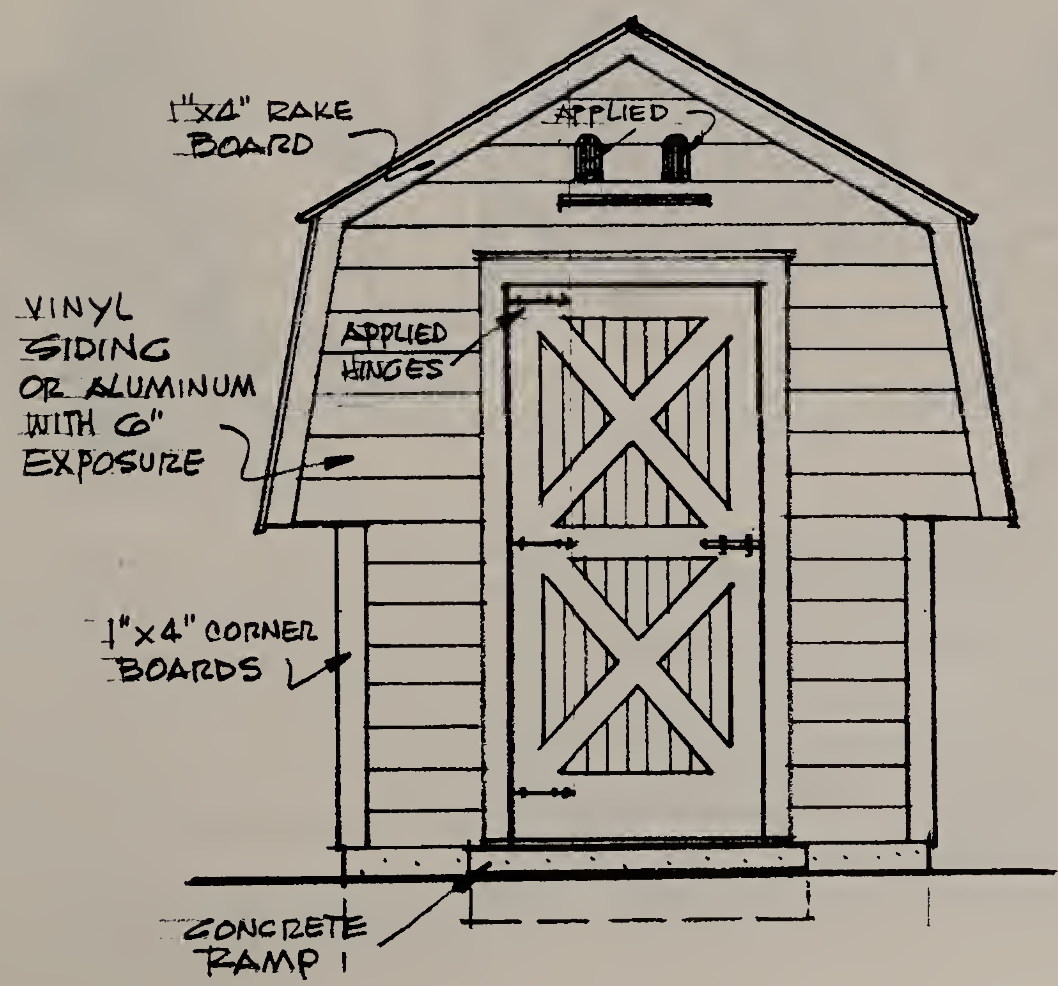
REQUIRED CONCRETE IN CUBIC YARDS = 1.15




SIDE ELEVATION.




·SECTION·

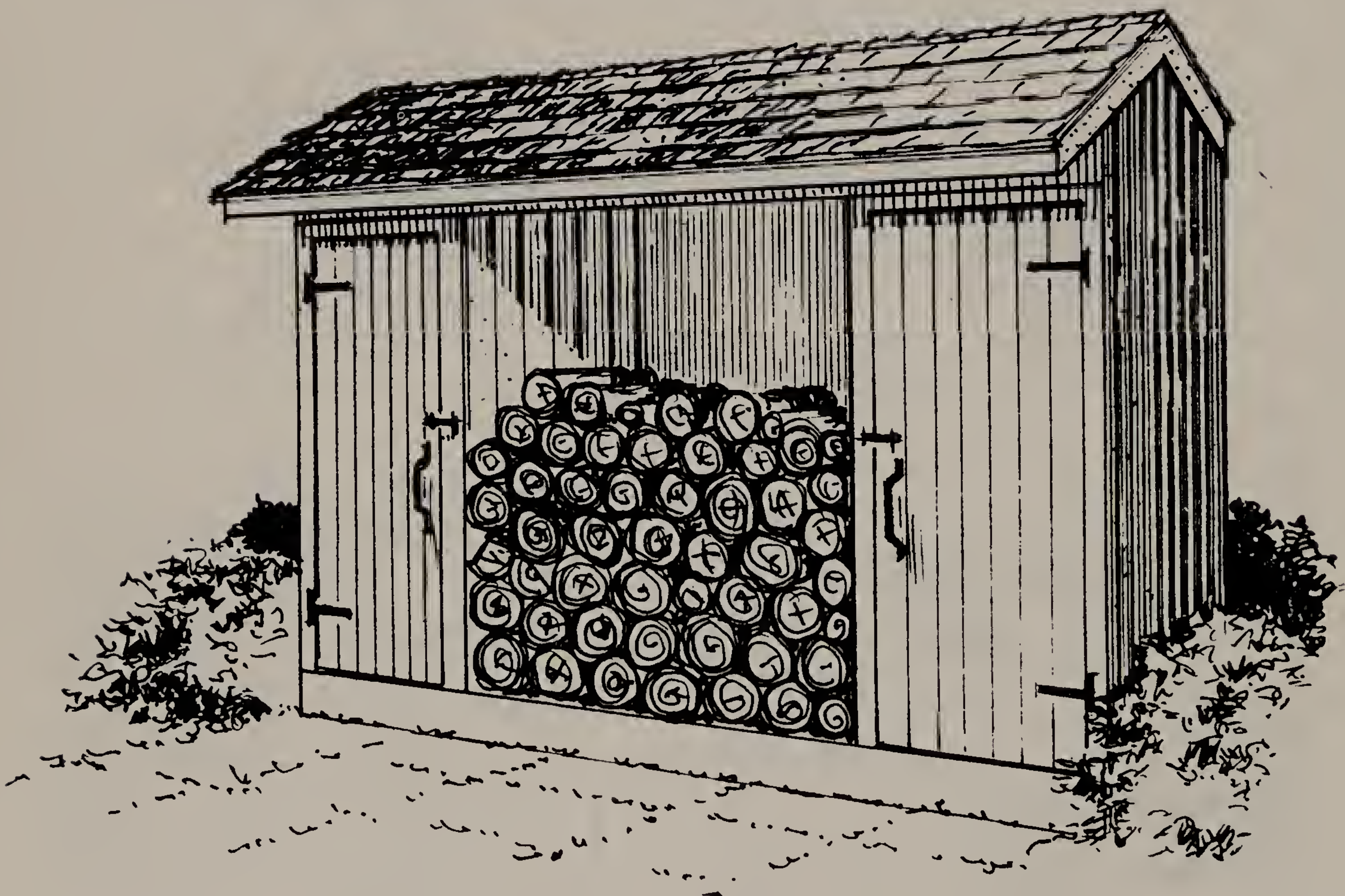



FRONT

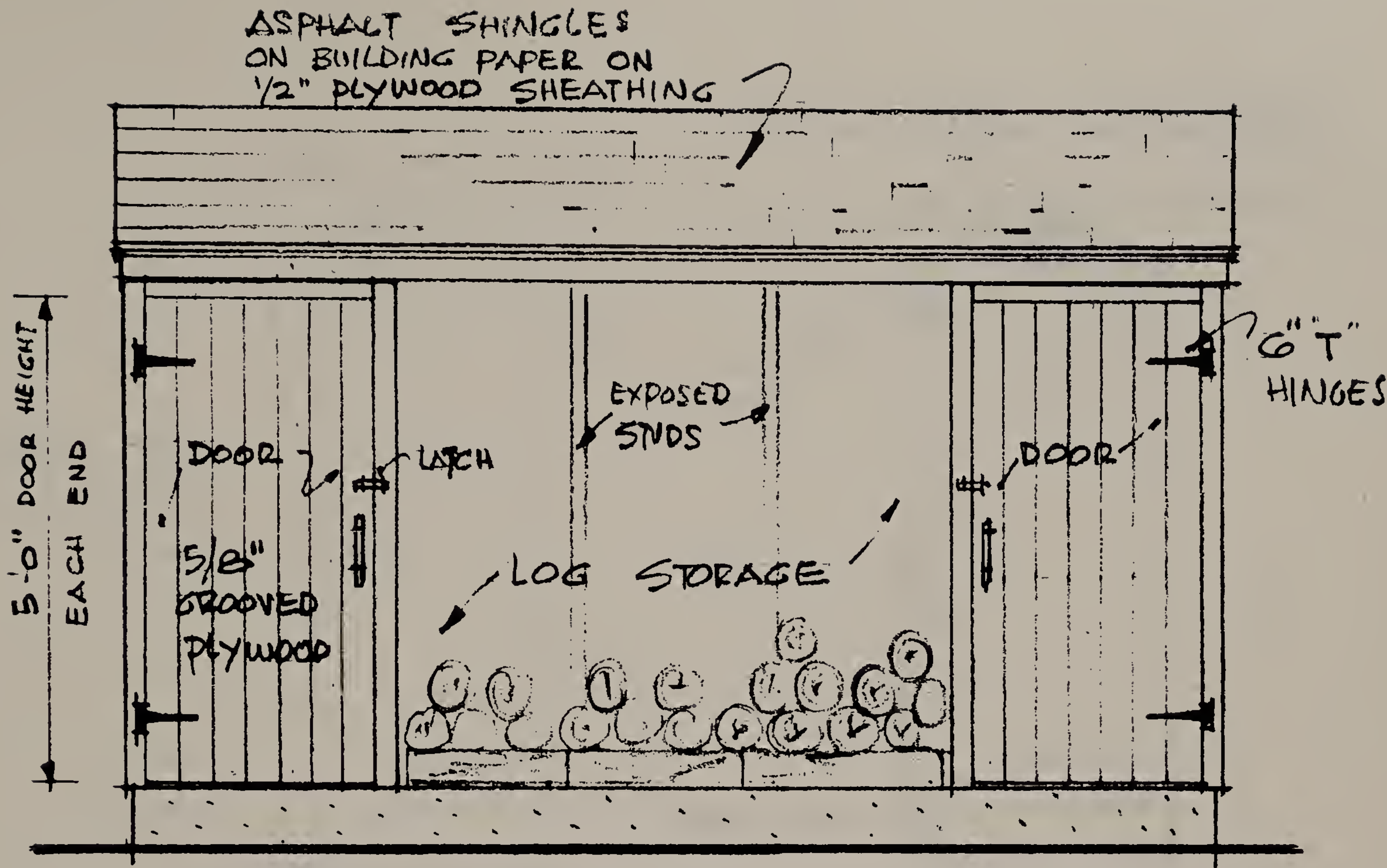
# 5.

# WOODSHED

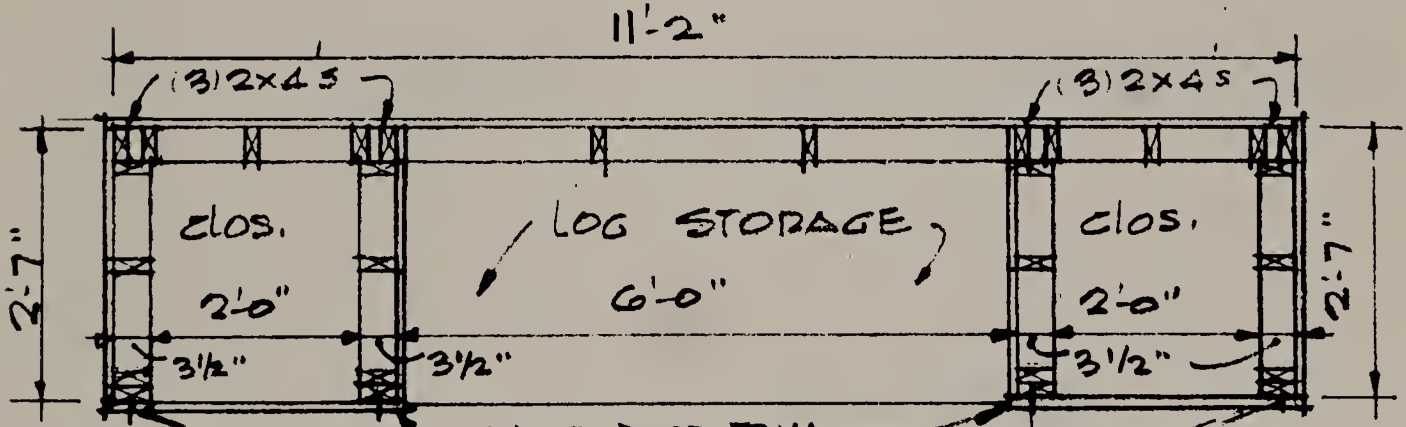
## Keep your fuel dry, accessible, and neatly stacked



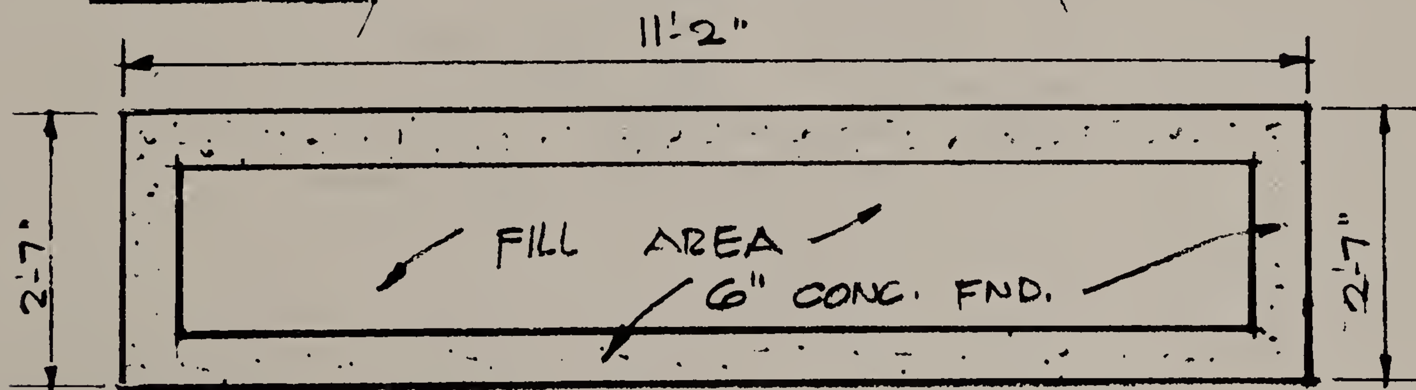
This narrow shed can be built against property line for log and garden tool storage. Logs are protected from weather and canvas drop can be added for extra protection. Flanking closets will hold garden tools, fertilizers and flammable materials. Unit can be locked to keep children out. Shed is built on concrete slab above ground level. Exterior grooved plywood can be stained or painted. Unit is 11'2" wide.



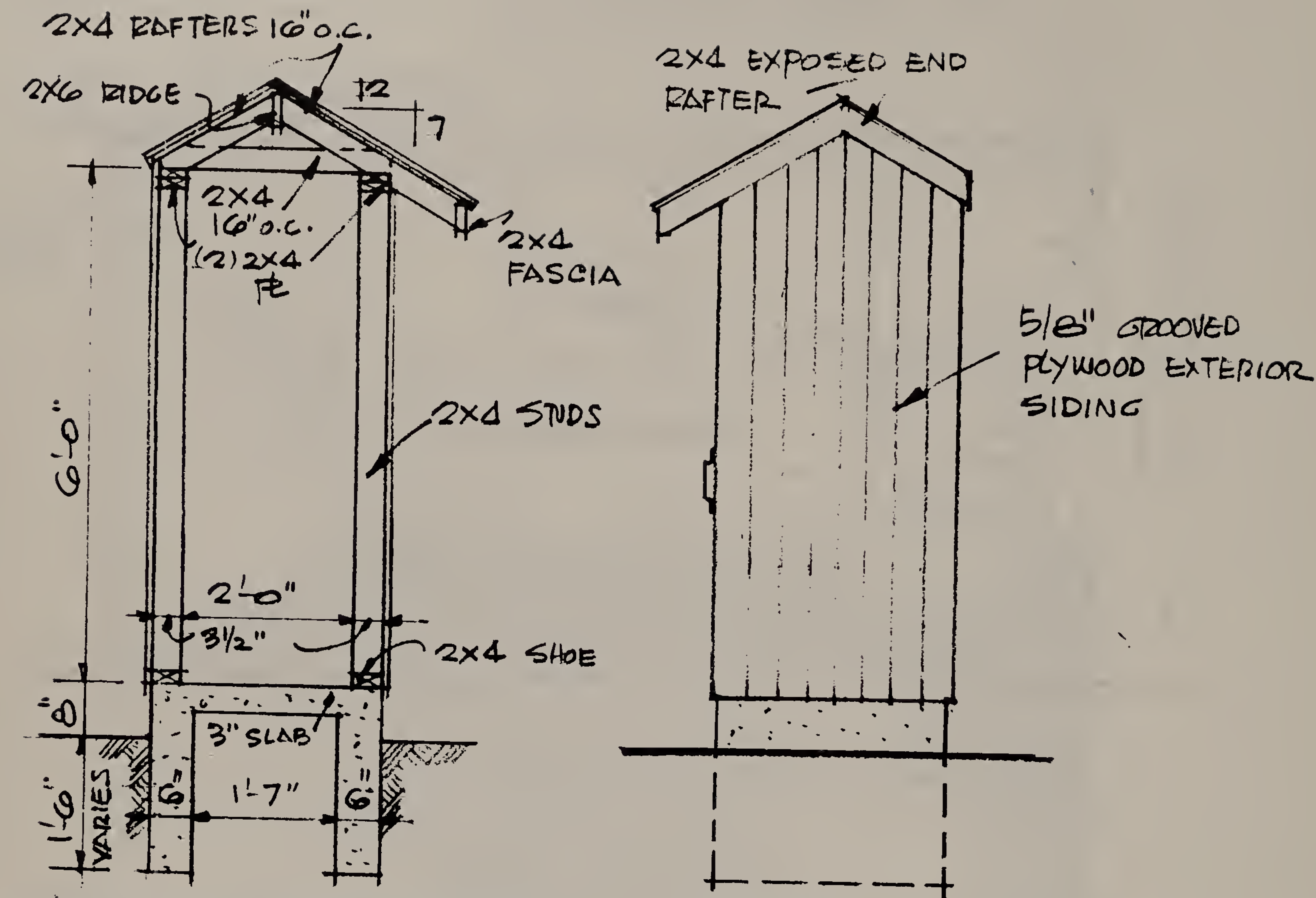

· FRONT ELEVATION ·




· PLAN ·




· FOUNDATION PLAN ·




· CROSS SECTION ·   · SIDE ·

## MATERIAL LIST

| | | |
|---|---|---|
| 28 | 2x4/6'-0" | STUDS |
| 9 | 2x4/2'-7" | RAFTER TIES |
| 9 | 2x4/4'-0" | RAFTERS (CUT TO FIT) |
| 1 | 2x6/11'-2" | RIDGE BOARD |
| 77 LIN. FT. | 2x4 | PLATES TOP & BOTTOM |
| 45 SQ. FT. | ROOFING MATERIALS | |
| 122 SQ. FT. | 5/8" VERTICAL GROOVED PLYWOOD SIDING | |

# COOKING CENTERS

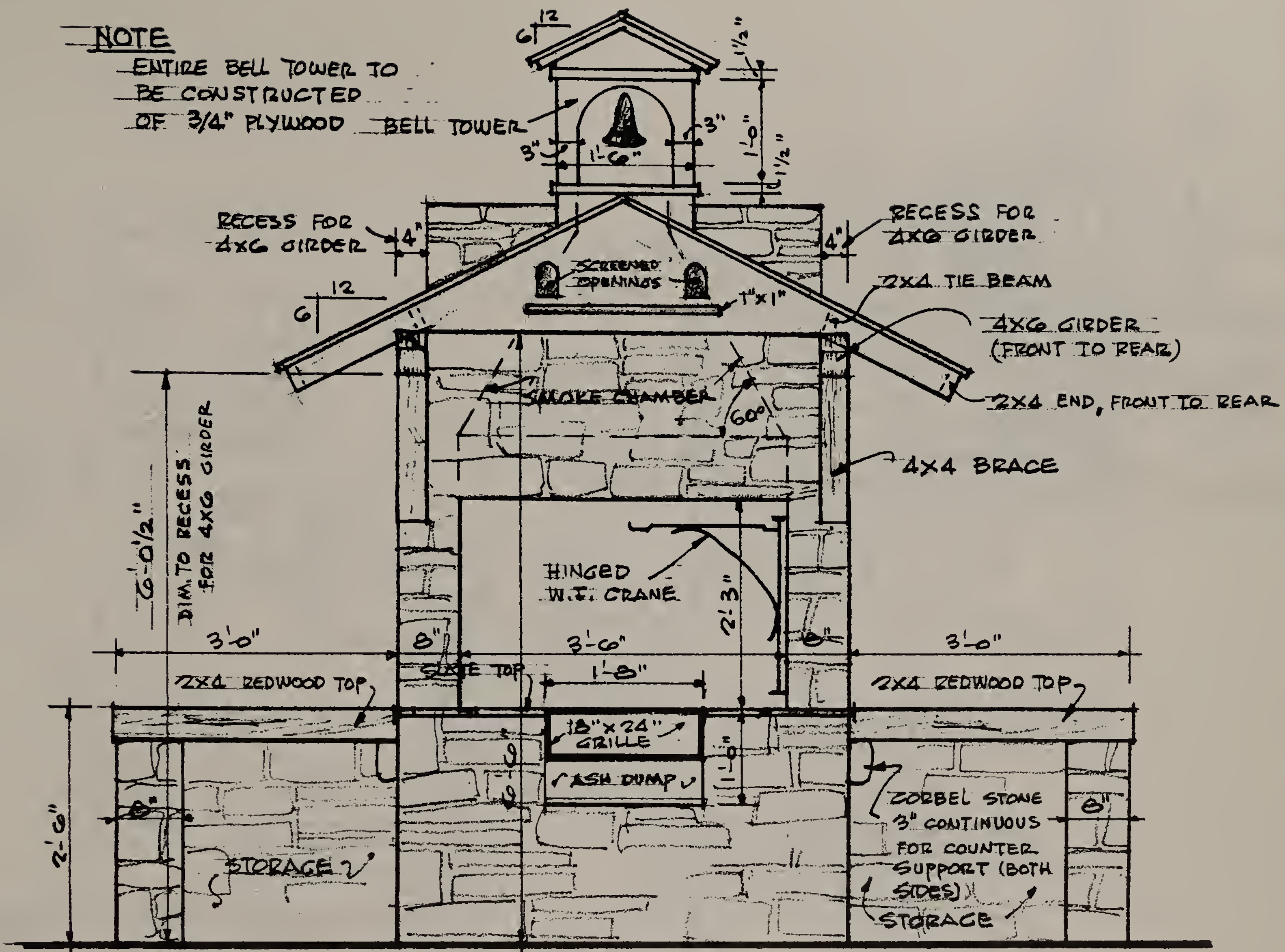
(with lots of workspace and storage)

# 6.
# BARBECUE WITH BELL TOWER

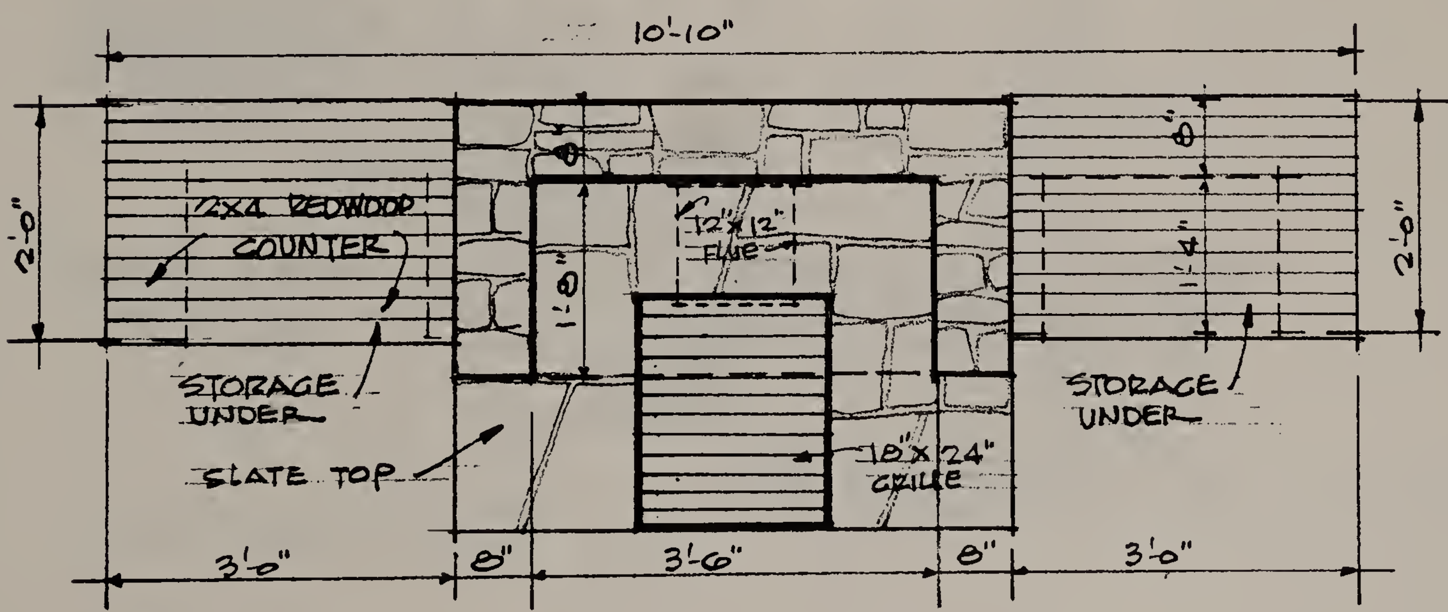
## There's built-in storage space too



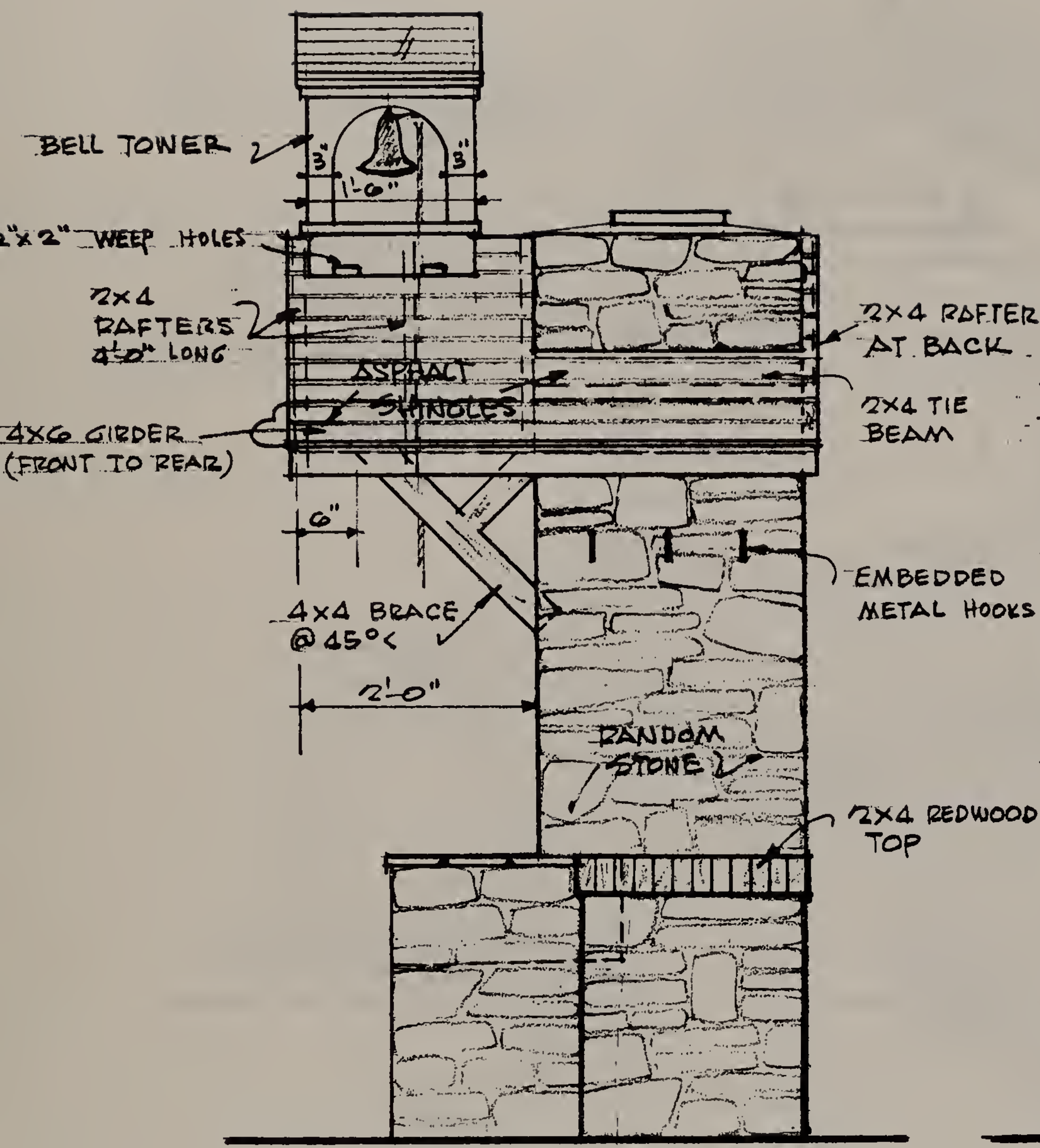
**S**tone barbecue: This impressive barbecue is marvelously well-organized for the outdoor chef. It has two redwood counters—one at left, the other at right. Under each, there is storage space for supplies or trash cans. Wood roof shelters grill and the chef. Note tower with bell to signal that dinner is served. Unit is 10'10" wide; 3'8" deep (center), 2' deep (sides), 2'6" at counters and grill; 8' at chimney.



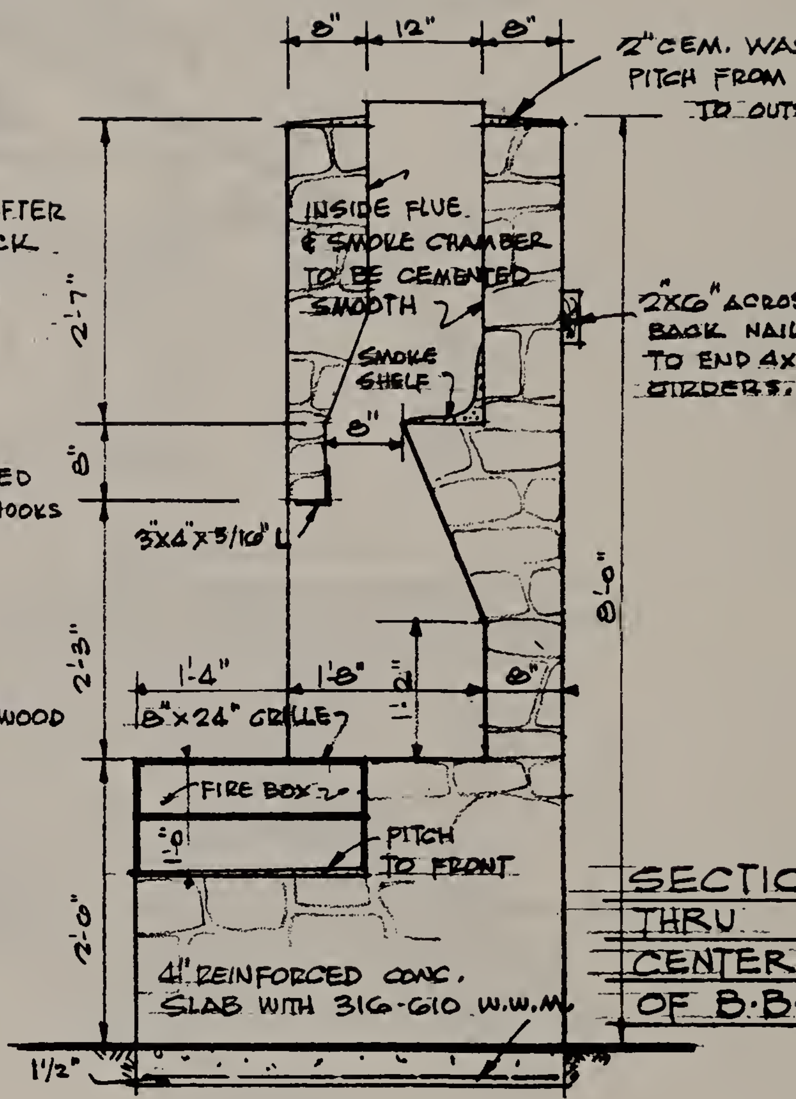

· FRONT ELEVATION ·




· PLAN ·




·RIGHT SIDE ELEVATION·




SECTION THRU CENTER OF B.B.Q.

## ·MATERIAL LIST - B.B.Q.·

| | |
|---|---|
| 100 | CU. FT. STONE |
| 22 | CU. FT. MORTAR |
| 1 | 18"x24" GRILLE |
| 1 | 18"x24" GRATE |
| 1 | 3"x4"x3/16" LINTEL 4'-0" LONG |
| 16 | 2"x4"x6'-0" REDWOOD COUNTER |
| 1 | 1'-4"x1'-4" HINGED W.I. CRANE |

## ·FRAMING LUMBER LIST (ROOF)

| LOCATION | SIZE | AMOUNT | LIN. FT. |
|---|---|---|---|
| RAFTERS | 2x4 | 8/4'-0" | 32 |
| MISC. | 2x4 | - | 18 |
| GIRDER | 4x6 | 2/4'-6" | 9 |
| BRACE | 4x4 | - | 7 |

ROOFING ½" PLYWOOD 26 SQ. FT.
BELL TOWER ¾" PLYWOOD 14 SQ. FT.

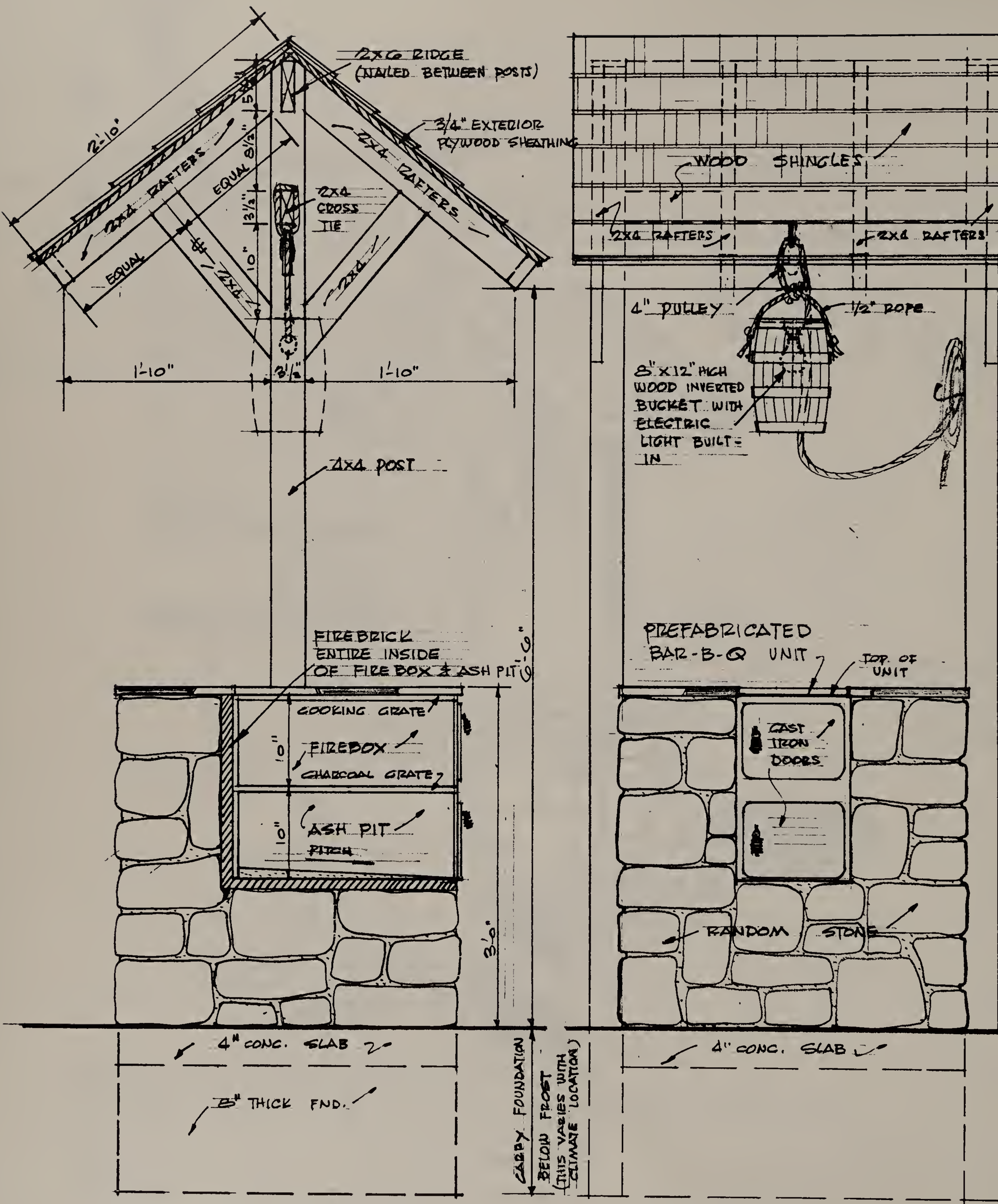
# 7.

# WISHING WELL COOKOUT CENTER



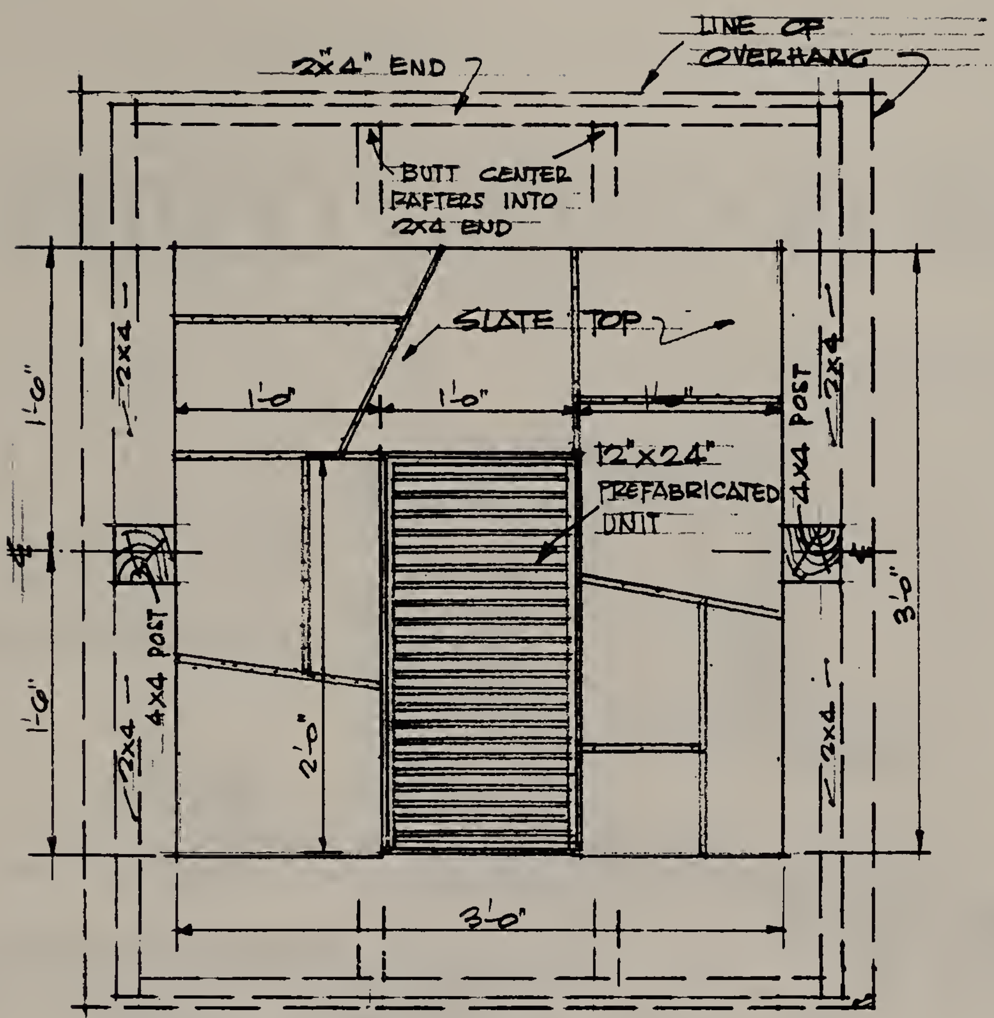

## It's a Bar-B-Q! with a shingled roof

If you think this is a decorative do-nothing wishing well for the yard, look again. It's a cookout center for the chef. Pre-fabricated Bar-B-Q unit has cooking grate, firebox and ash dump. Slate counter offers work space. Inverted bucket shields light bulb. Well, 3 feet square, is 6 feet, 6 inches high.




·CROSS SECTION·

· ELEVATION ·




·PLAN·

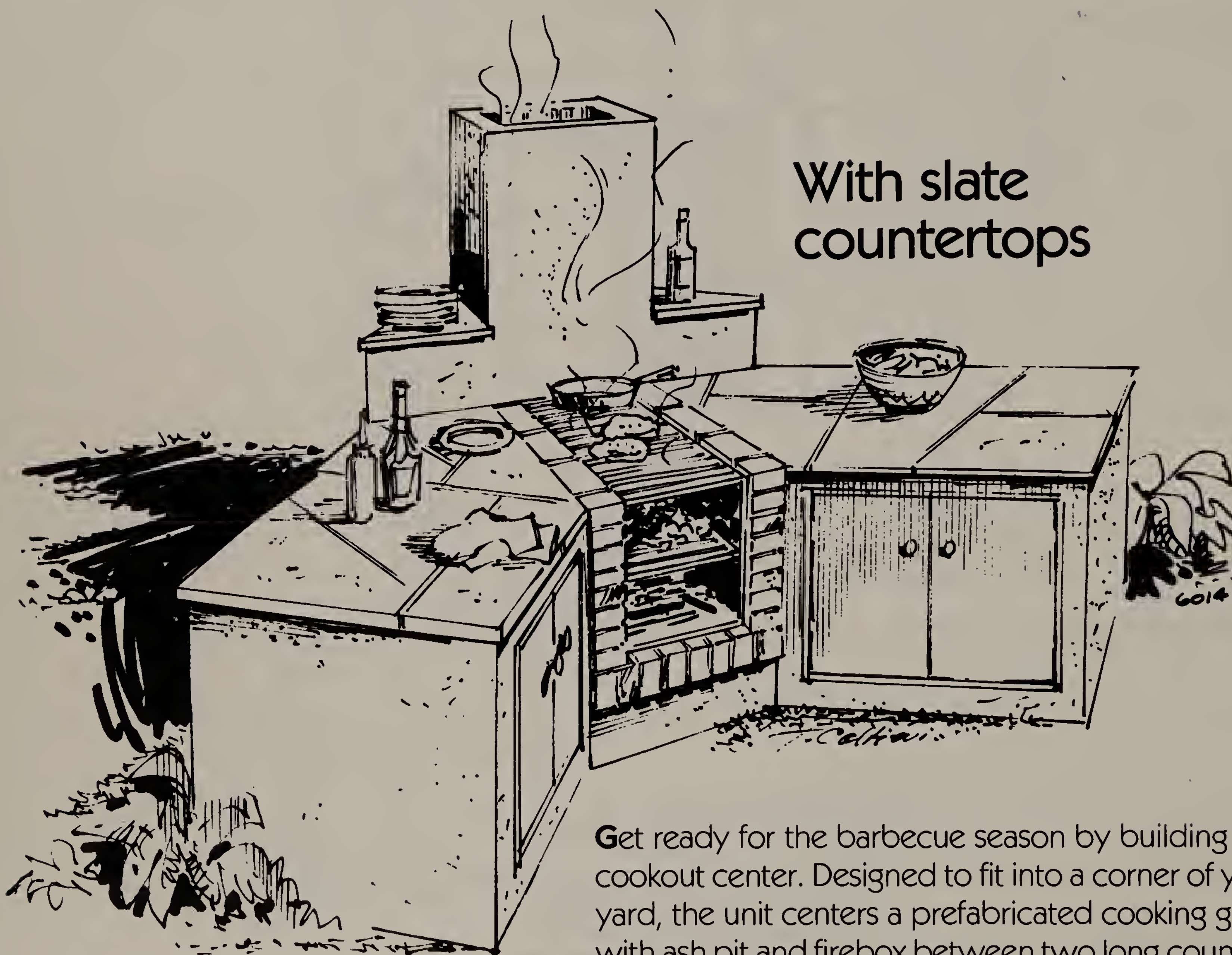
## MATERIAL LIST

| | |
|---|---|
| 24 | CU. FT. RANDOM STONE |
| 6 | " " MORTAR |
| 8"X16" CONC. BLOCKS SET IN | |
| 1.5 | P.C. MORTAR (FOUNDATION) |
| 11 | 2X4 / 3'-0" LONG (CUT TO FIT) |
| 2 | 2X4 / 3'-6" RAFTER ENDS |
| 1 | 2X6 / 3'-0" RIDGE |
| 2 | 3/4"X4'-0" PLYWOOD SHEATHING |
| 48 | SQ. FT. WOOD ROOF SHINGLES |
| 2 | 4X4 / 8'-6" WOOD POSTS |
| 7 | SQ. FT. SLATE FOR COUNTER |
| 1 | PREFABRICATE B-B-Q. UNIT |
| 1 | BUCKET, PULLEY & 1/2" ROPE |
| 10 | SQ. FT. FIREBRICK |

# 8.

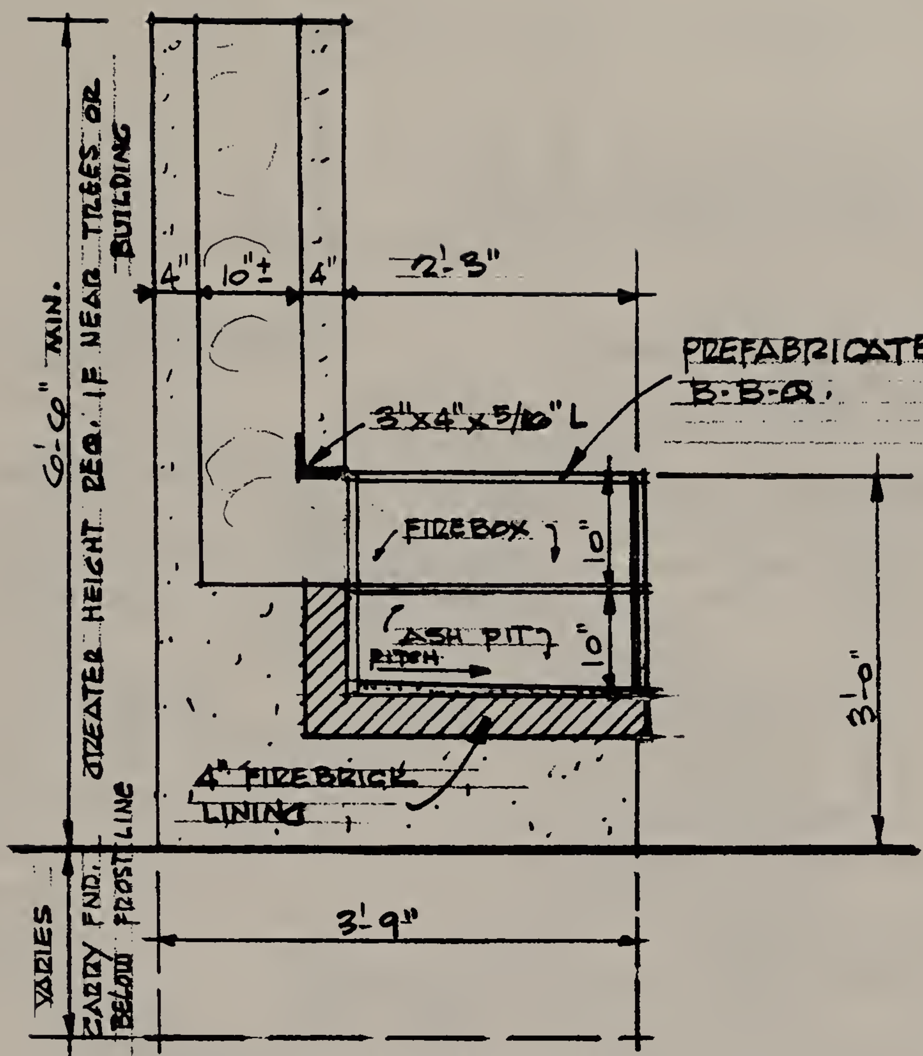
# CORNER COOKOUT CENTER

## With slate countertops

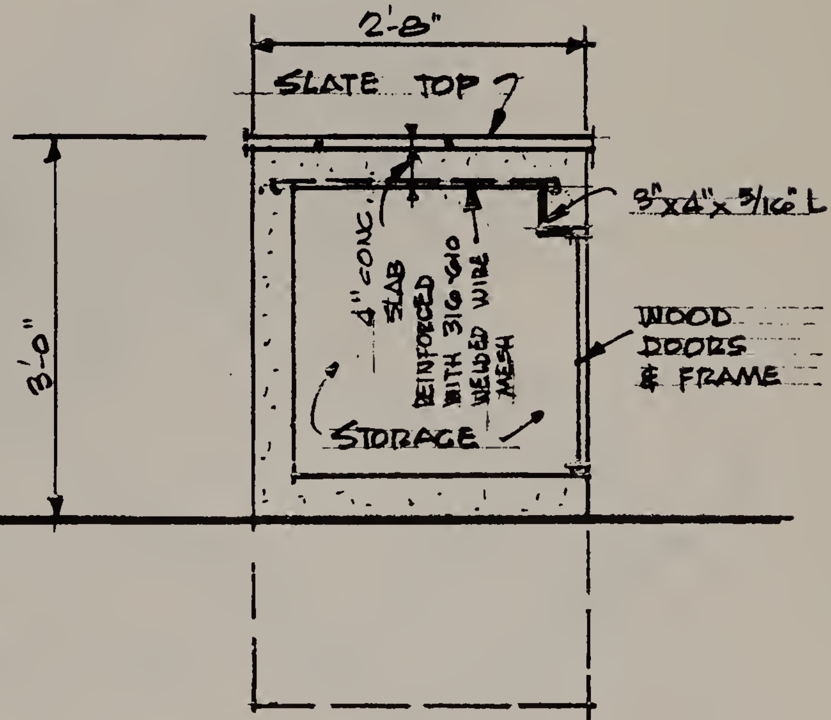


Get ready for the barbecue season by building this cookout center. Designed to fit into a corner of your yard, the unit centers a prefabricated cooking grate with ash pit and firebox between two long counters where your favorite chef can prepare his specialties. Underneath the counters, cabinets store a host of supplies where they're easy to get at. Flue at rear carries smoke from the firebox away from the cooking area.

Use slate on the counter tops for a touch of color plus easy maintenance. Build unit of brick or, for economy, use concrete blocks with stucco finish. Unit is 3 feet high; 8 feet long from center rear to each side.




SECTION "B-B"



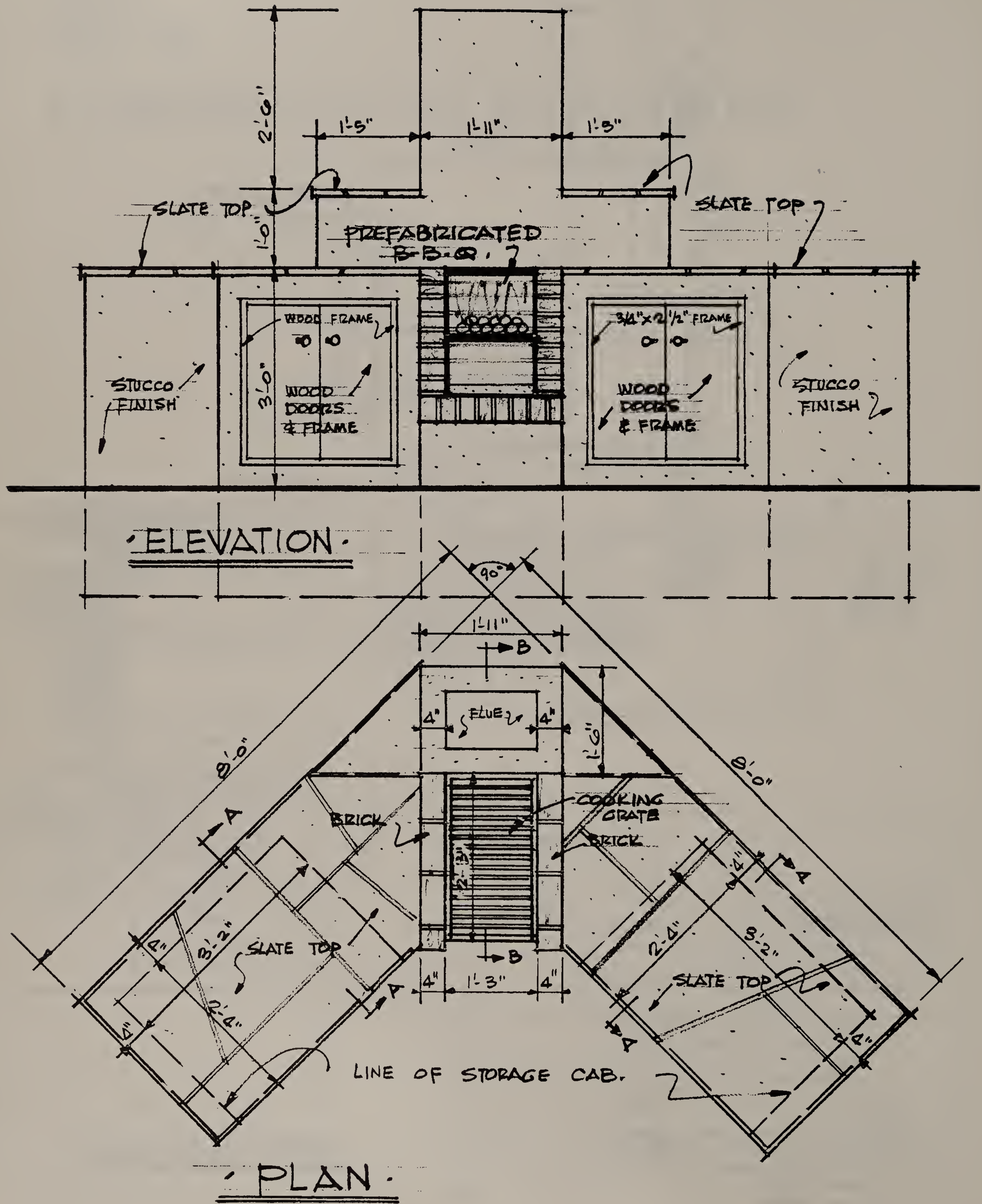

SECTION "A-A"

## MATERIAL LIST

- 100 SQ. FT. OF 4"x8"x16" CONC. BLOCKS
- 1 BAR-B-Q. UNIT 15"x 27"x 20" HIGH
- 19 SQ. FT. OF FIREBRICKS
- 2 STEEL LINTELS 3"x4"x3/16" / 3'-8" LONG.
- 1 " LINTEL " " " / 1'-9" "
- 51 SQ. FT. OF 4"x8"x16" CONC. BLOCKS FOR FND. (1'-6" DEPTH SHOWN)
- 2 3'-8" x 2'-10" WELDED WIRE MESH #316-610
- 30 SQ. FT. 1/2" SLATE (COUNTER TOP)

WOOD

- 21 LIN. FT 3/4"x2 1/2" DOOR FRAME
- 2 2'x3' EXTERIOR PLYWOOD 3/4" CUT TO FIT (4 DOORS)
- 2 PAIR HINGES
- 2 PULL KNOBS


2'-6"
1'-5"
1'-11"
1'-5"
SLATE TOP
SLATE TOP
1'-0"
PREFABRICATED
B-B-Q
WOOD FRAME
3/4"x2 1/2" FRAME
STUCCO FINISH
3'-0"
WOOD DOORS & FRAME
WOOD DOORS & FRAME
STUCCO FINISH
ELEVATION
90°
1'-11"
B
FLUE
4"
4"
1'-6"
8'-0"
8'-0"
BRICK
COOKING GRATE
BRICK
A
A
A
A
4"
3'-2"
SLATE TOP
2'-4"
4"
4"
2'-4"
3'-2"
SLATE TOP
4"
B
4"
1'-3"
4"
LINE OF STORAGE CAB.
PLAN

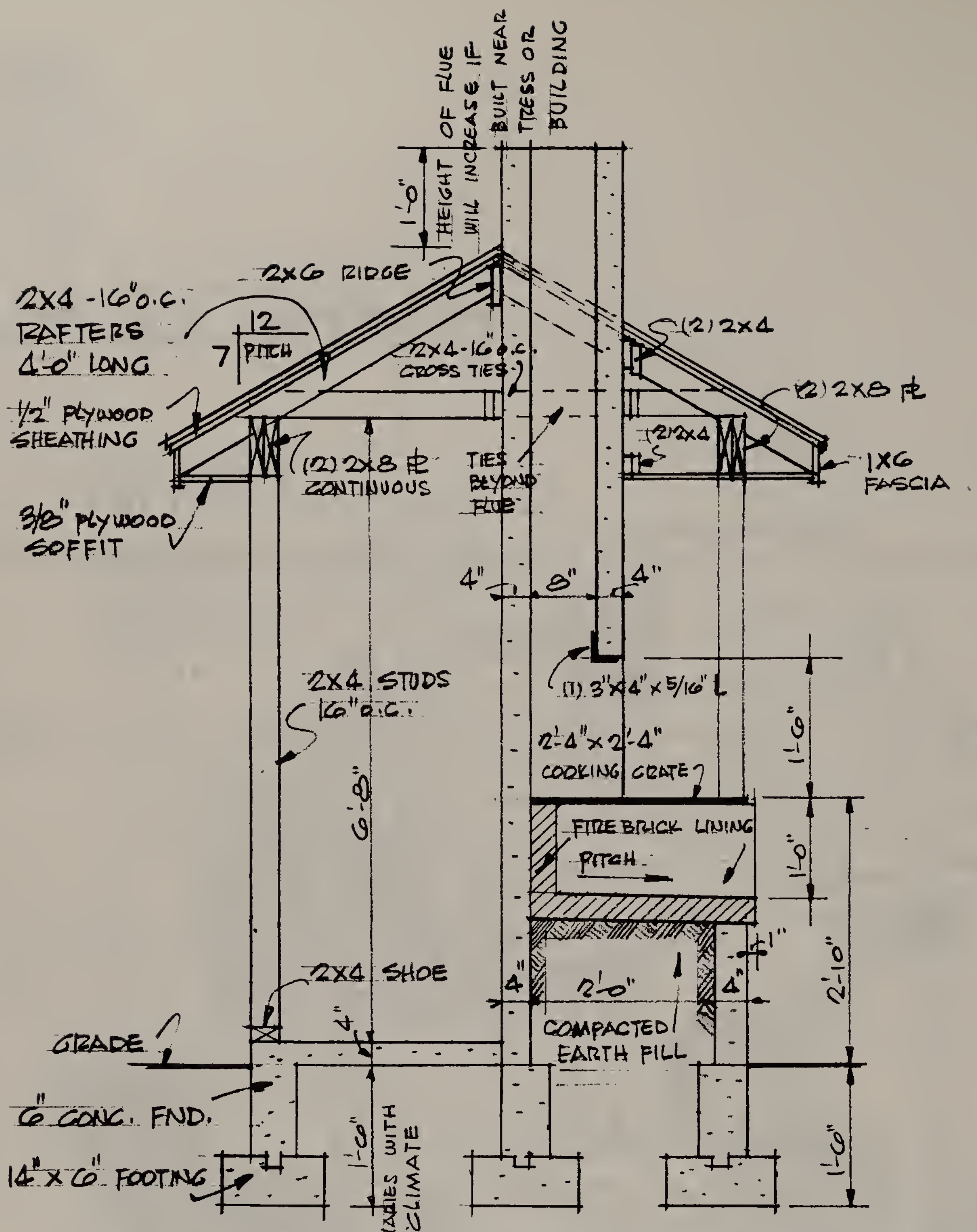
# 9.

# BARBECUE PLUS

## With an asphalt-shingled roof



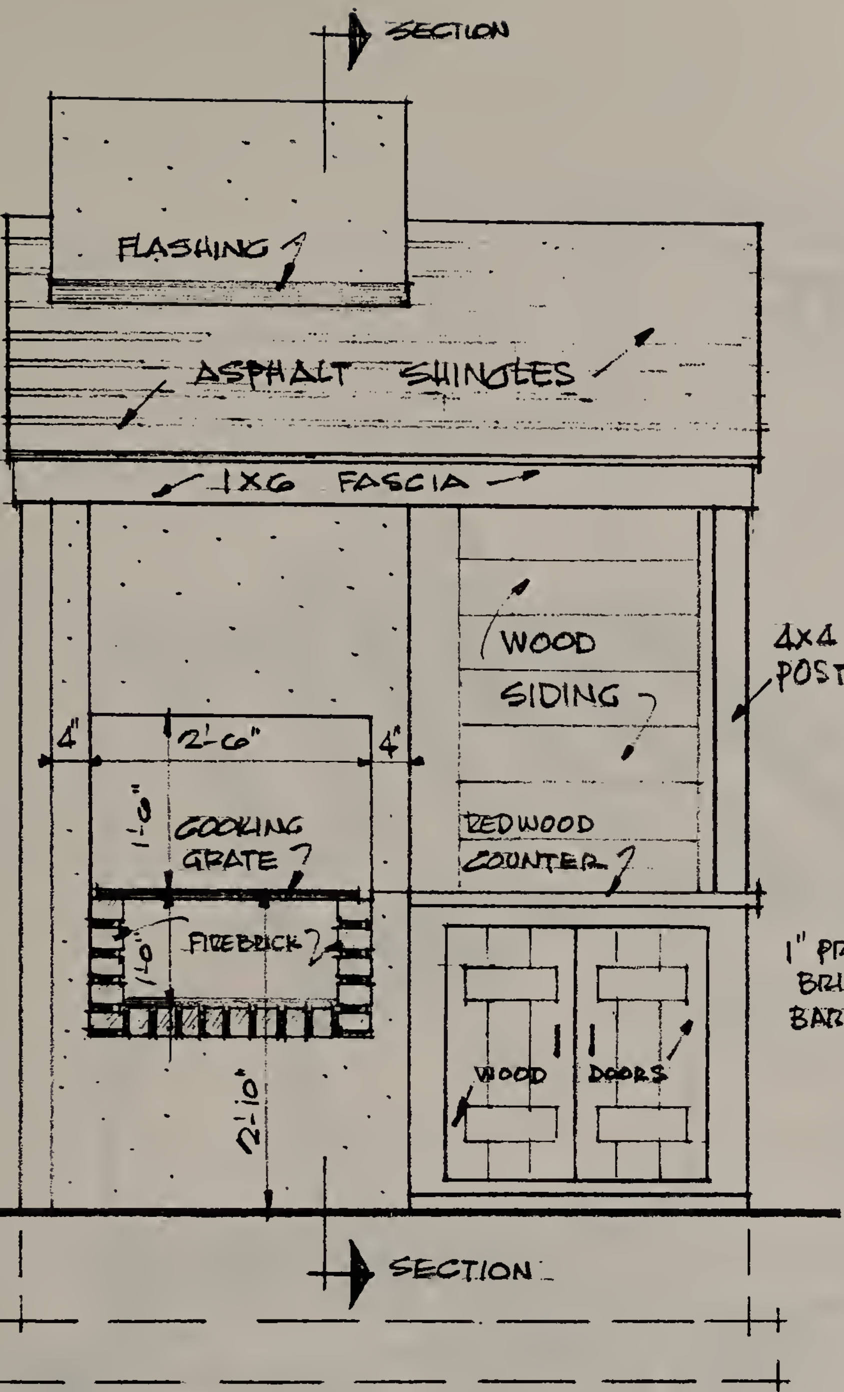
**E**quip the yard for summer and storage with a combination barbecue and shed built under one roof. Shed has two storage areas with doors opening on each side. Redwood work counter is handy to the barbecue, which is built of concrete block for economy. Barbecue-shed unit is 6'6" wide, 5'5" deep; 6'4" high.



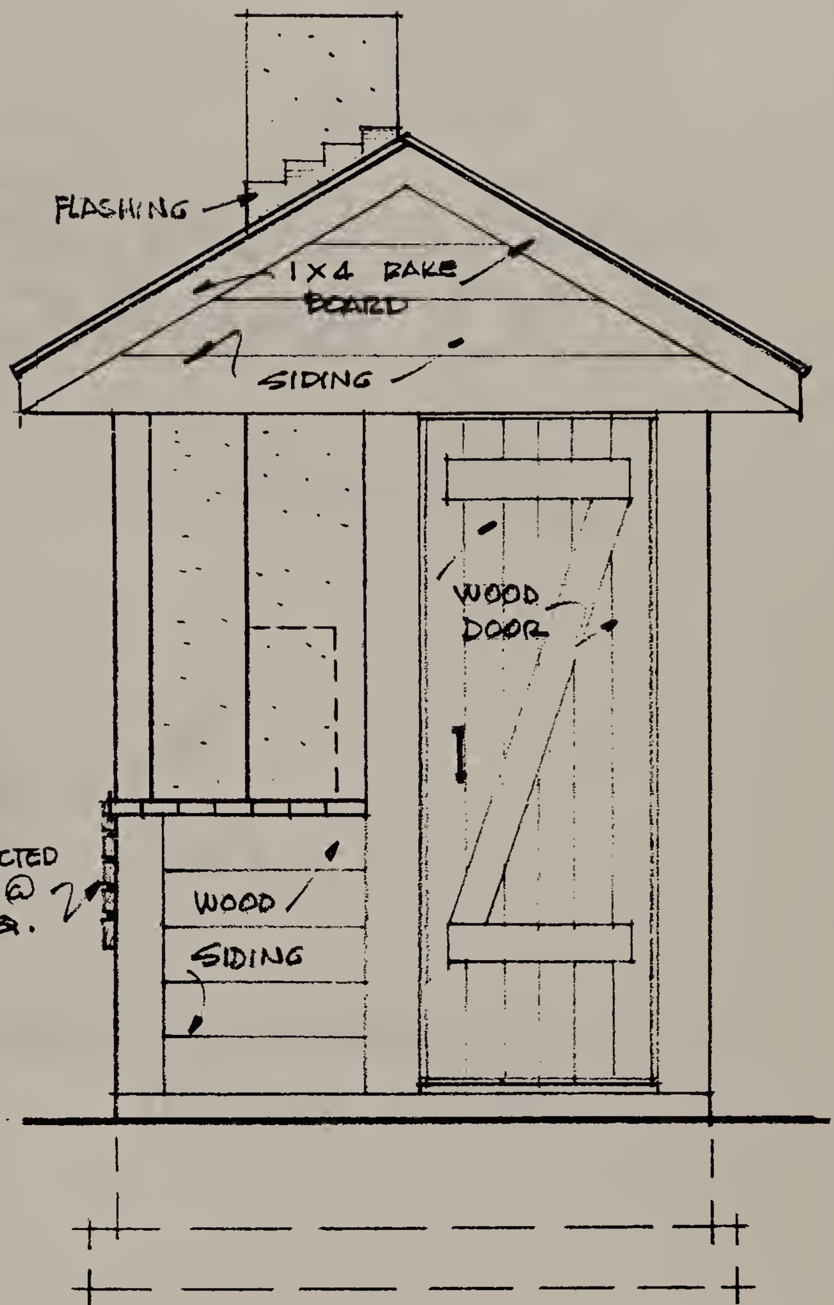

· CONSTRUCTION SECTION ·

## · MATERIAL LIST ·

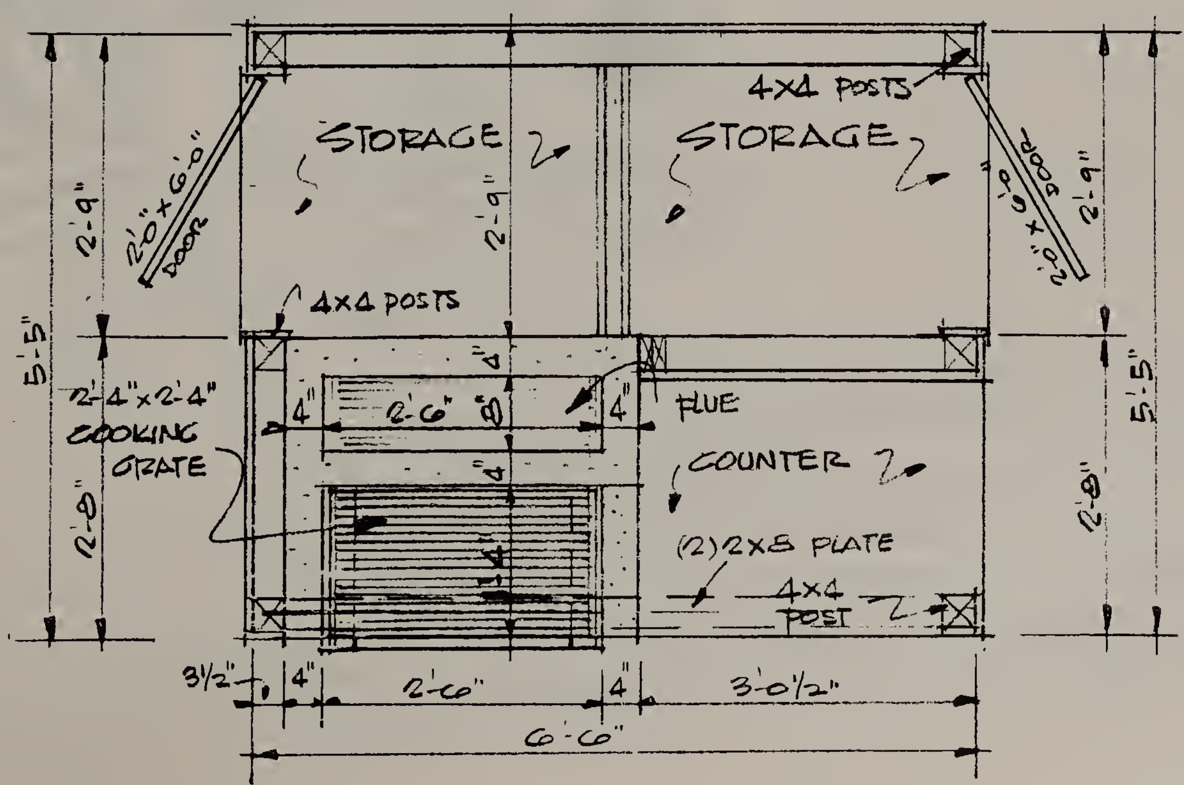
| | | |
|---|---|---|
| 14 | CU. FT. | POURED CONC. FOR FOOTING |
| 27 | SQ. FT. | OF 6" CONC. BLOCKS FOR FND. |
| 108 | SQ. FT. | OF 4"x8"x16" CONC. BLOCKS, B.B.Q. |
| 7 | SQ. FT. | OF 4"x8"x8" " " , " |
| 12 | SQ. FT. | OF FIREBRICK, B-B-Q. |
| WOOD | | |
| 12 | 2x4 | RAFTERS, 4'-0" LONG |
| 1 | 2x6 | RIDGE , 7'-0" LONG |
| 6 | 2x4 | CROSS TIES 5'-5" LONG |
| 6 | 4x4 | POSTS 6'-0" LONG |
| 10 | 2x4 | STUDS 6'-0" LONG |
| 36 | LIN. FT. | 2x4 SHOE & MISC. |
| 4 | 2x8 | PLATE , 7'-0" LONG |
| 63 | SQ. FT. | 1/2" PLYWOOD, ROOF SHEATHING & COUNTER |
| 56 | SQ. FT. | ASPHALT SHINGLES , ROOF |
| 8 | SQ. FT | 2x6 REDWOOD COUNTER |
| 64 | SQ. FT. | WOOD SIDING |
| 2 | DOORS | 2'-0" x 6'-0" |
| 2 | CAB. DOORS | 14" x 27" |
| 64 | LIN. FT. | 1x6 CORNER BOARS & FASCIA |
| 16 | LIN. FT | 1x4 RAKE BOARD |
| 1 | ROLL | 10" ALUM. FLASHING AT CHIMNEY |
| 4 | PAIR | DOOR HINGES |
| 4 | | DOOR PULLS |




FRONT




RIGHT SIDE



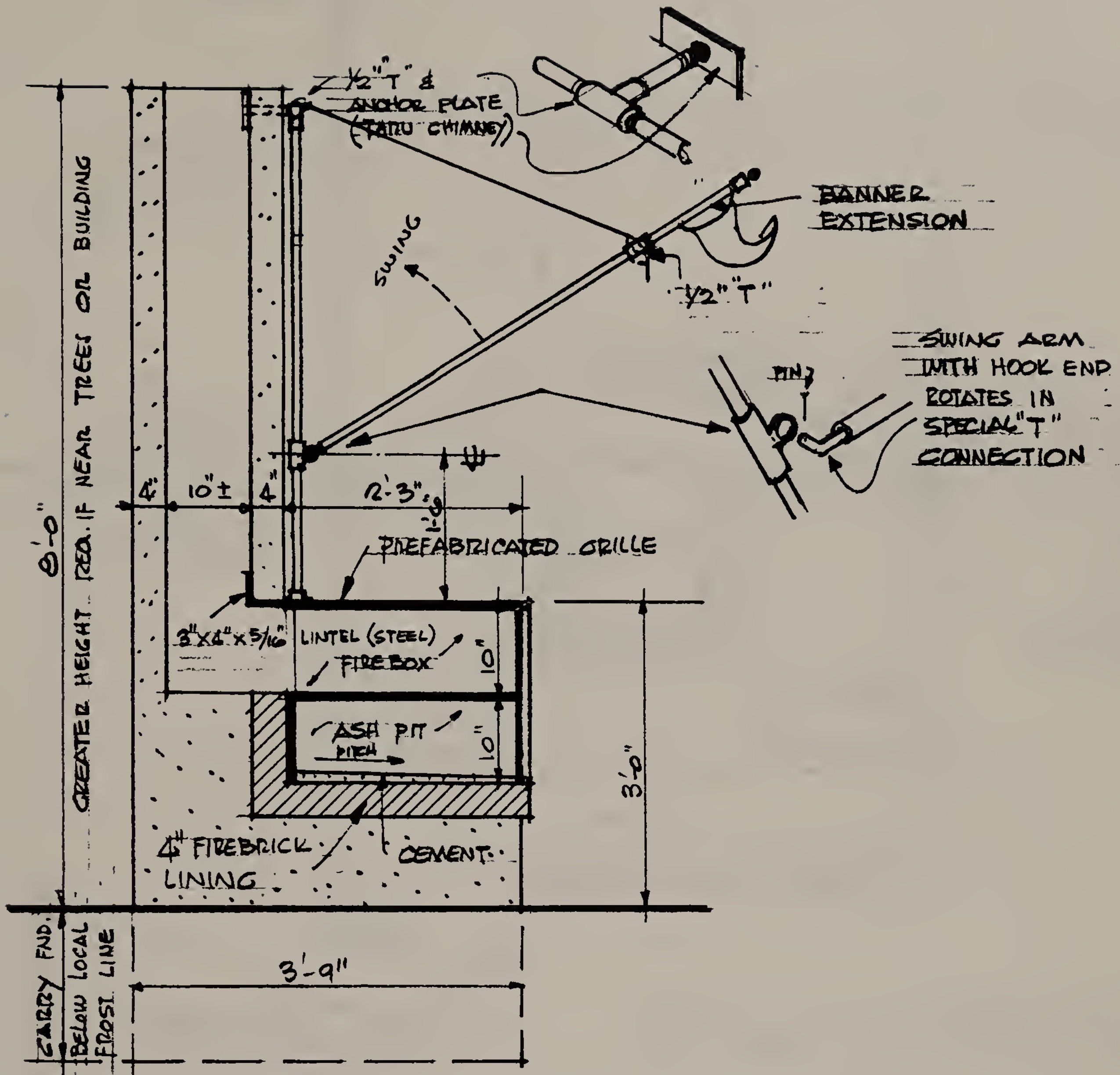
# 10.

# SIMPLE CONCRETE BLOCK BAR-B-Q



## A barbecue that's extra special

Here's a barbecue plan worthy of a master chef. An awning adds to its charm. Wood counters at each side provide work space. Beneath them is open storage for charcoal, garbage cans, etc. Chimney carries the smoke away from the cooking area. Unit is concrete block construction. Barbecue is 6 feet wide by 2 feet, 3 inches deep by 6 feet, 6 inches high.



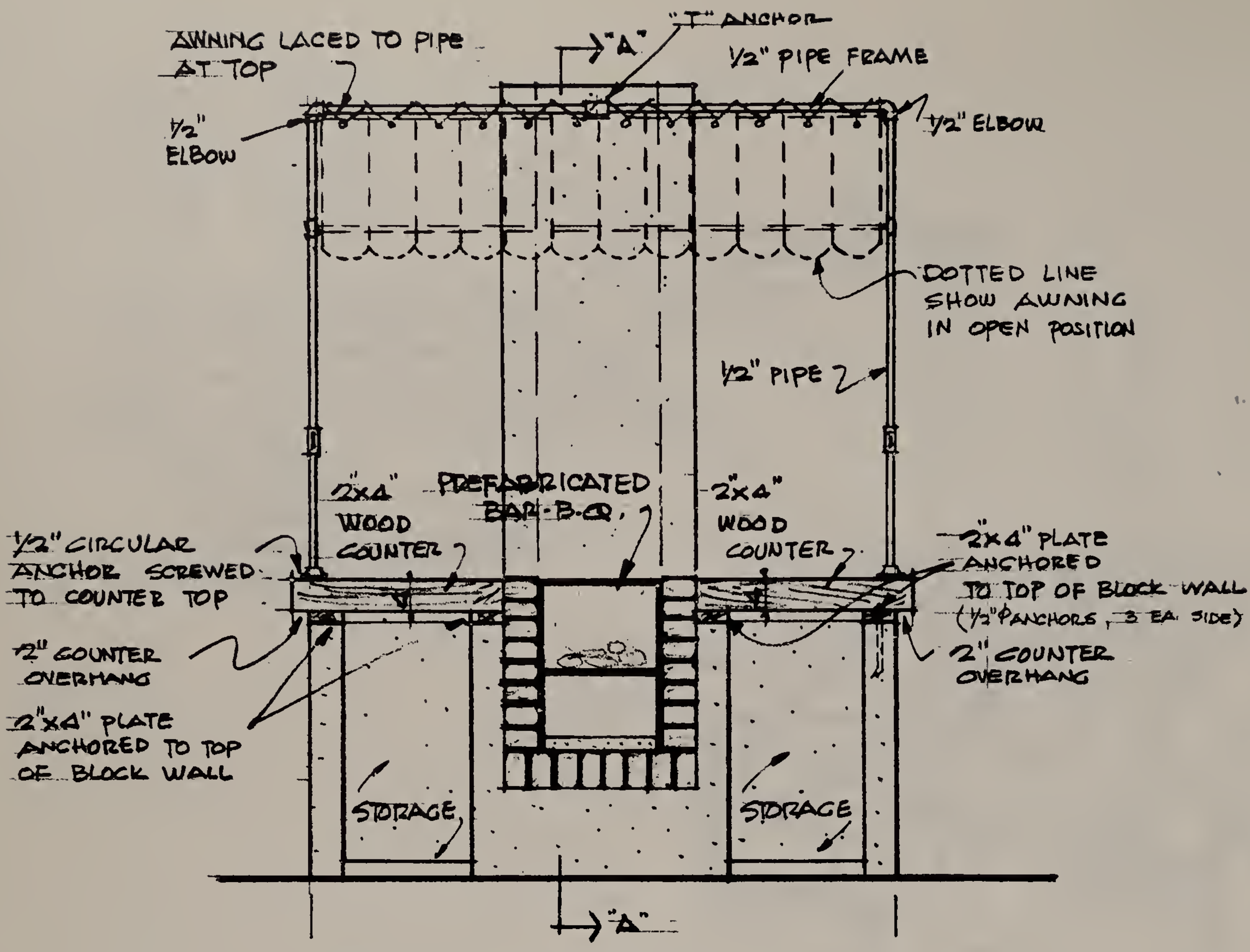

## SECTION "A-A"

## MATERIAL LIST

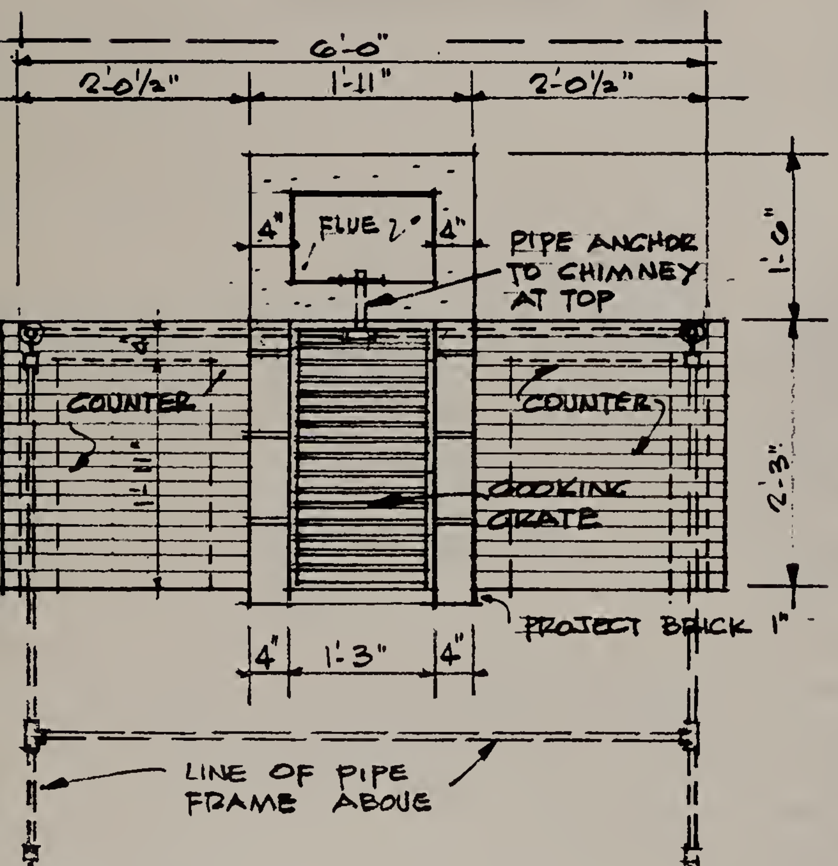
| | |
|---|---|
| 76 | SQ. FT. OF 4"x8"x16" CONC. BLOCKS |
| 1 | BAR-B-Q. UNIT 15"x27"x20" HIGH |
| 19 | SQ. FT. OF FIREBRICKS |
| 1 | STEEL LINTEL 3"x4"x5/16"/1'-9" LONG |
| 28 | SQ. FT. OF 4"x8"x16" CONC. BLOCKS FOR FND. (1'-6" DEPTH SHOWN) |
| 40 | LIN. FT. OF 2"x4" FOR COUNTER TOP |
| 32 | LIN. FT OF 1/2"φ GALVANIZED PIPE |
| 2 | 1/2"φ PIPE ELBOWS |
| 1 | 1/2"φ SPECIAL "T" ANCHOR & PL AT TOP |
| 2 | 1/2"φ " SWING ARM "T" |
| 2 | 1/2"φ CIRCULAR BASE ANCHOR |
| 2 | 1/2"φ "T" |
| 2 | 1/2"φ HOOK ENDS WITH PINS FOR SWING ARM CONNECTION. |
| 2 | 1/2"φ ENDS - TOP OF SWING ARMS |
| 24 | SQ. FT. OF CANVAS MADE TO FIT PIPE FRAME WITH CANVAS SEAM AND GROMETS AT TOP FOR FASTENING |

REQUIRED AMOUNT OF MORTAR MIX FOR ALL CONCRETE WORK.

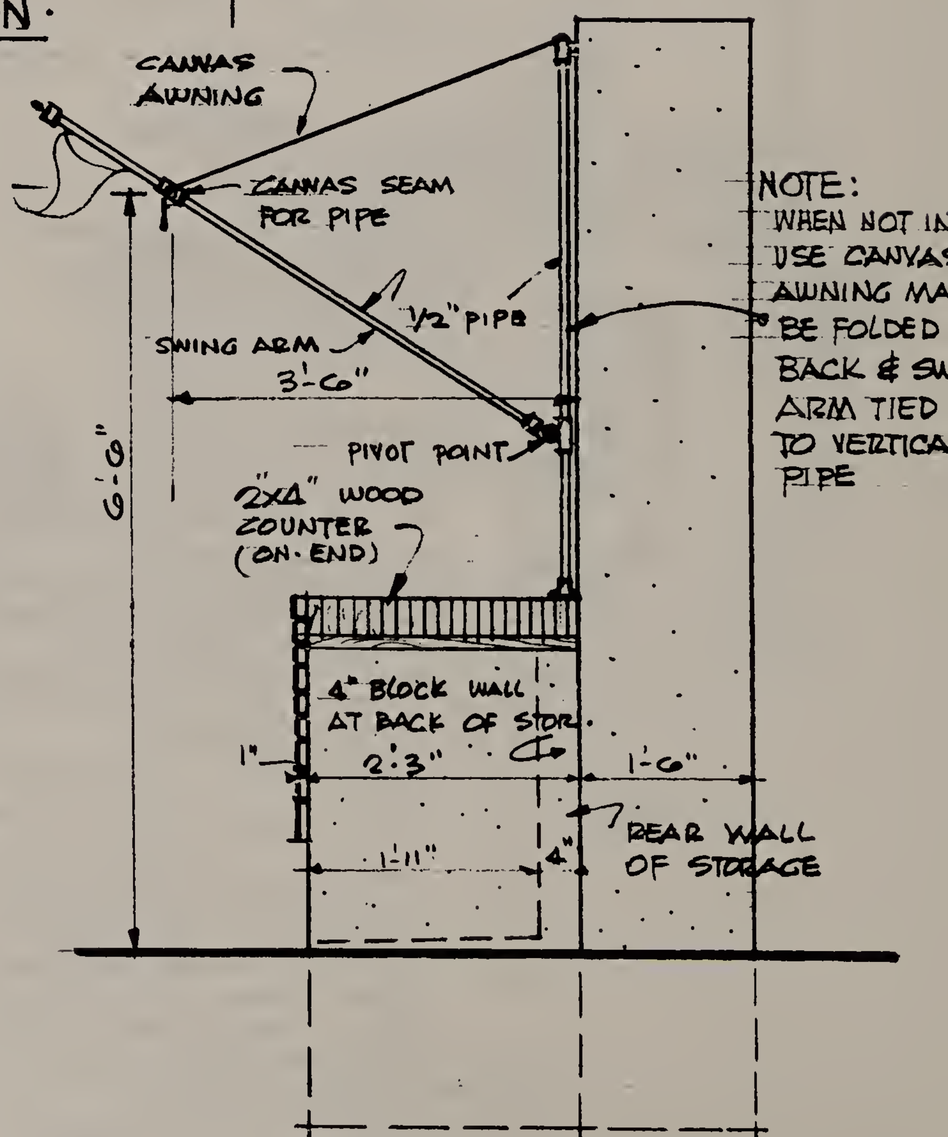
| | |
|---|---|
| 6 | 1/2"x8" LONG. PLATE ANCHORS |




· FRONT ELEVATION ·




· PLAN ·




· SIDE ELEVATION ·

# DAYPLACES

(for holding hands and summer celebrations)

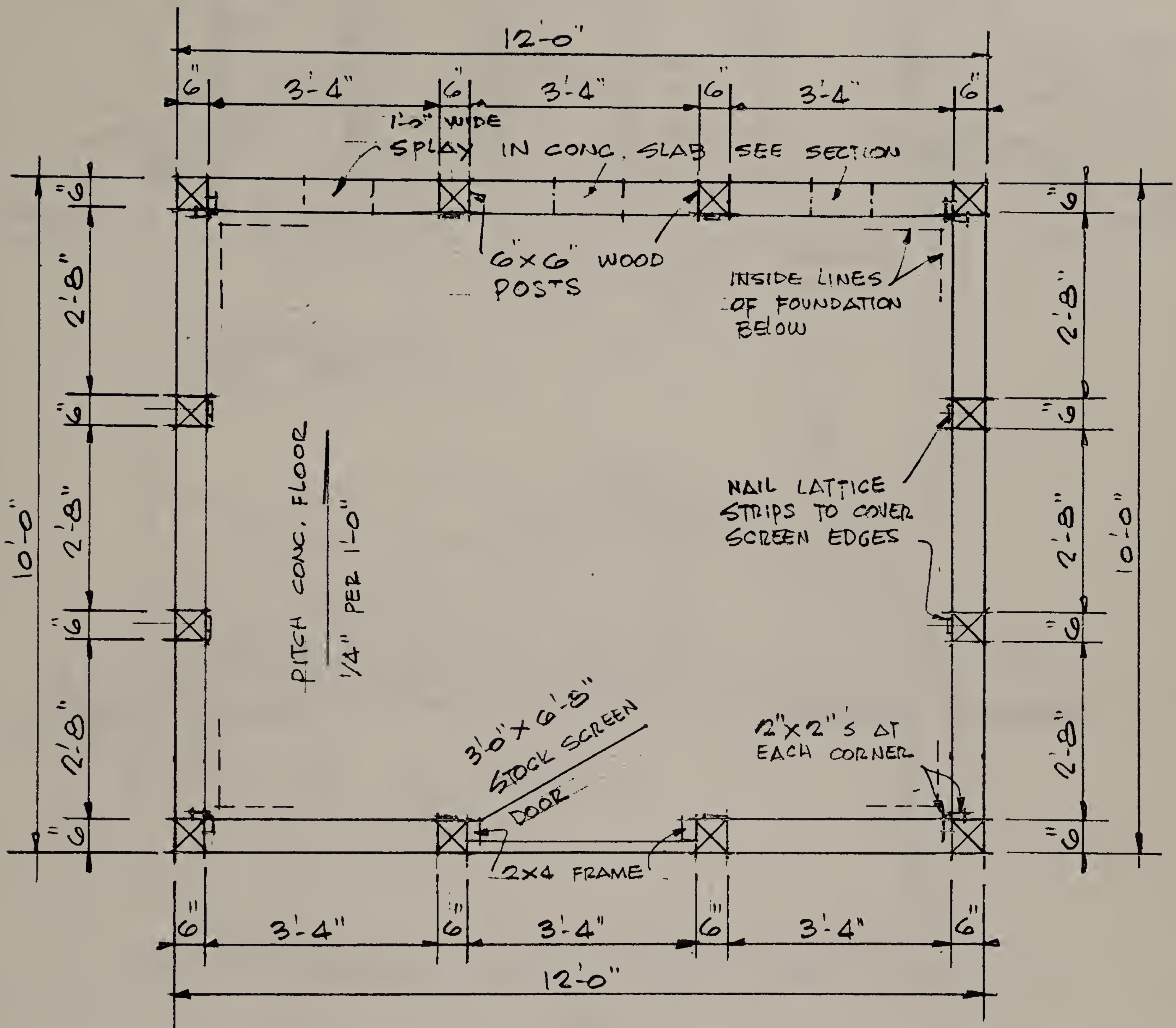
# 11.

# SUMMER ROOM

## It's all screened in



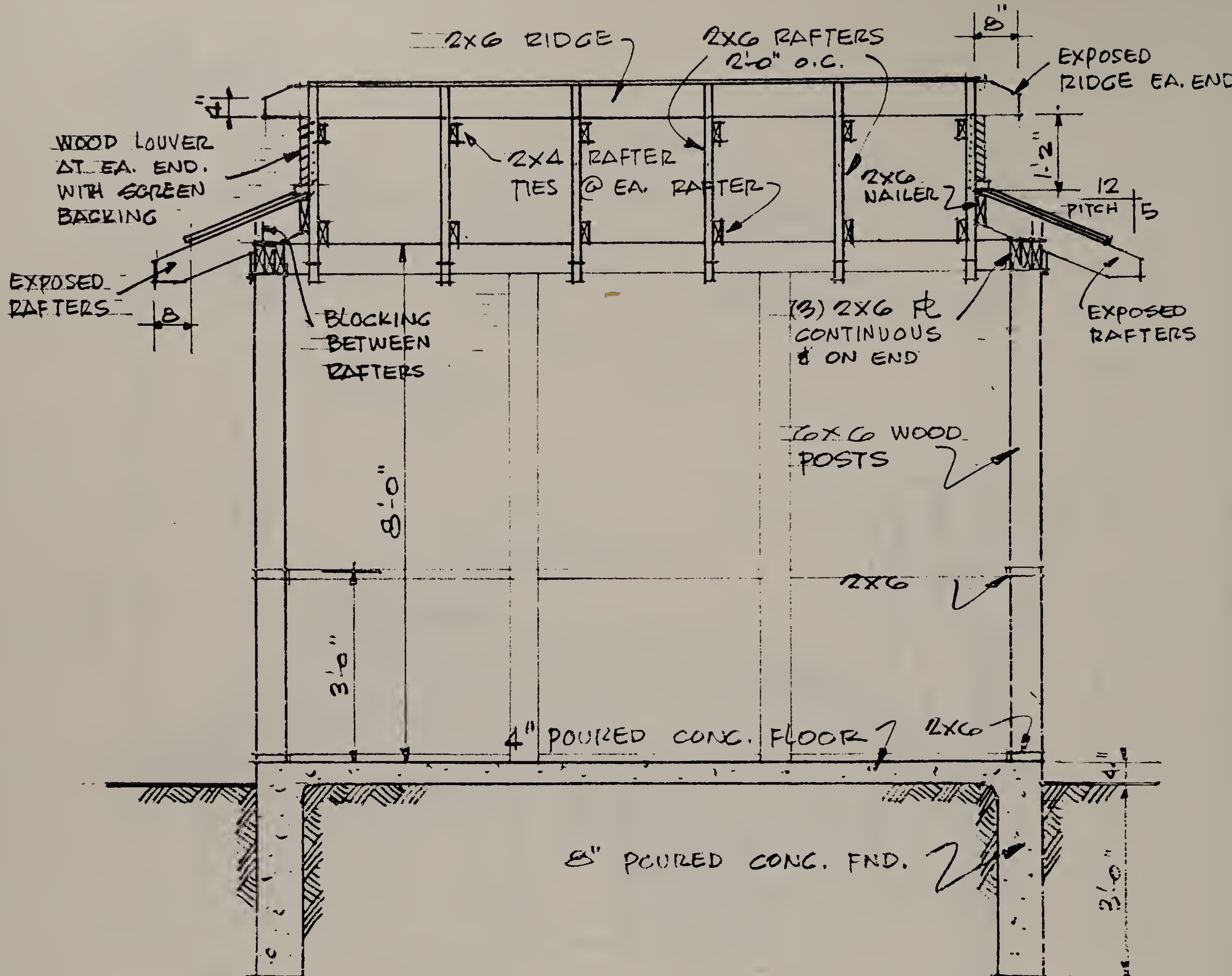
**B**uild yourself a 10' x 12' outdoor living room that's screened in so you can enjoy it, but insects can't. Shingle roof is louvered at each end, making a shady, airy summer retreat.



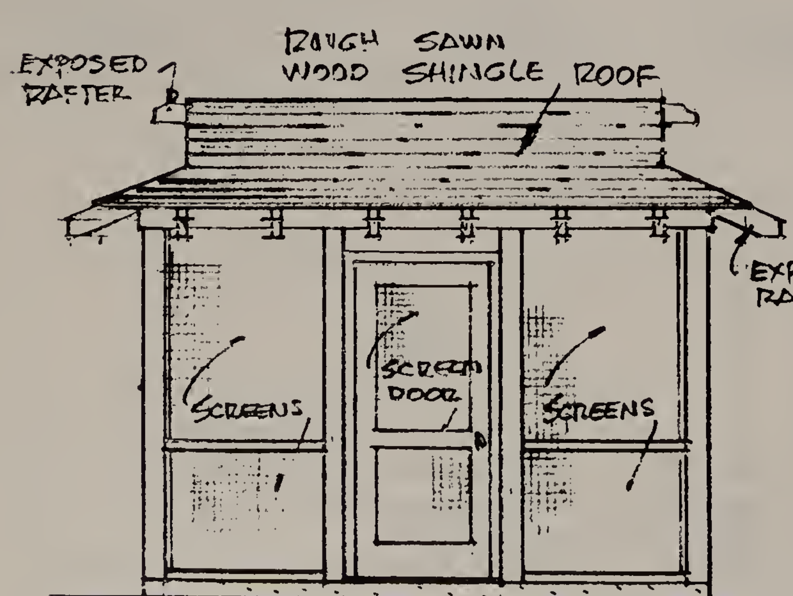

# ·FLOOR PLAN·

## MATERIAL LIST·

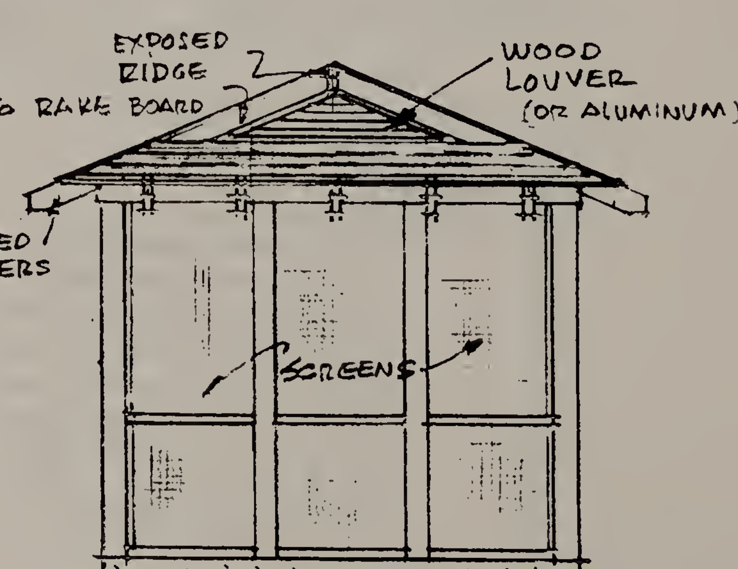
| | | | |
|---|---|---|---|
| 12 | 6"x6"x8'-0" WOOD POSTS | 4 | 2"x6"x12'-0" SILL & RAIL |
| 12 | 2"x6"x7'-0" RAFTERS | 4 | 2"x6'x10'-0" " " " |
| 10 | 2"x6"x3'-0" SIDE RAFTERS | 6 | 1/4"x1"x12'-0" LATTICE |
| 4 | 2"x6"x4'-0" CORNER RAFTERS | 6 | " " x10'-0" " |
| 2 | 2"x6"x8'-0" RAFTER NAILERS | 16 | " " x8'-0" " |
| 1 | 2"x6"x12'-0" RIDGE BOARD | 1 | 3'-0"x6'-8" SCREEN DOOR |
| 6 | 2"x4"x4'-0" RAFTER TIES | 400 | SQ.FT. ALUMINUM OR VINYL SCREENING |
| 6 | 2"x4"x10'-0" " " | 2 | WOOD LOUVERS (OR ALUMINUM) |
| 6 | 2"x6"x12'-0" PLATES | 185 | SQ.FT. 1/2" PLYWOOD SHEATHING (ROOF) |
| 6 | 2"x6"x10'-0" " | 185 | " " WOOD SHINGLES |
| | | 4.5 | SQ.YDS POURED CONCRETE |



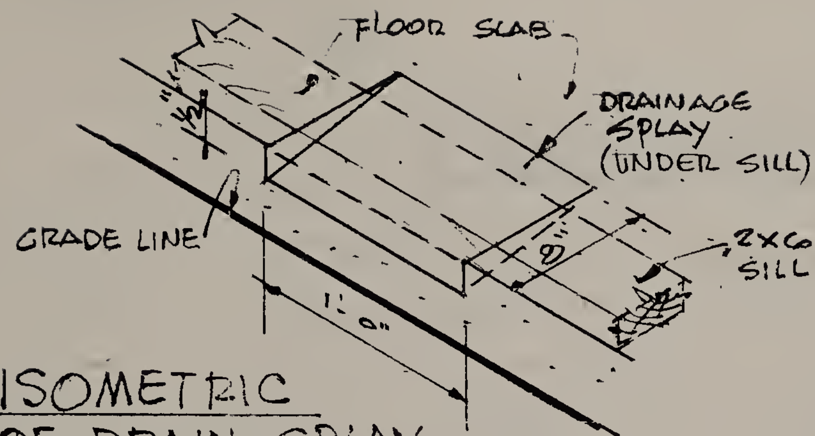

LONGITUDINAL SECTION



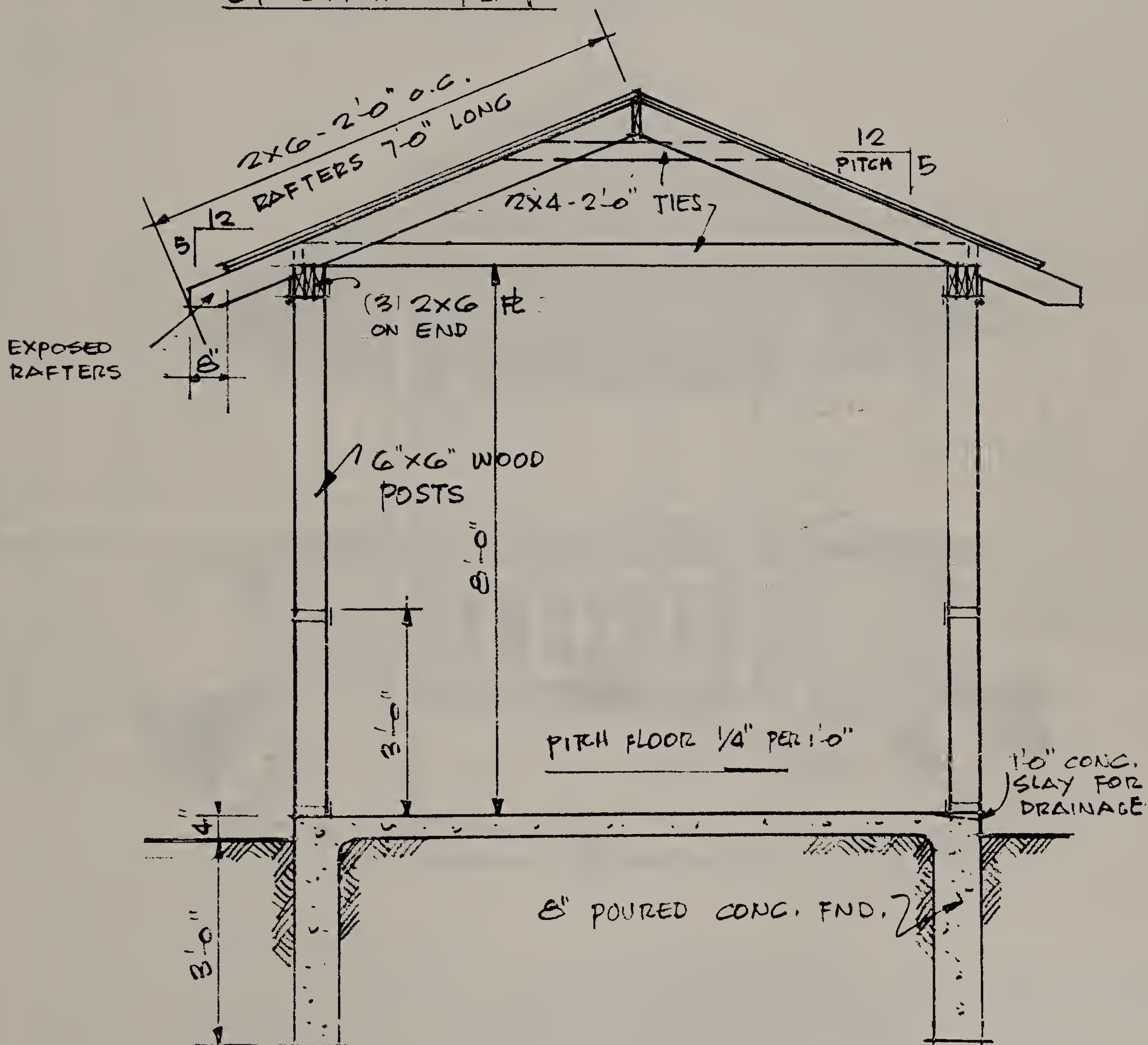

FRONT ELEVATION




SIDE ELEVATION




ISOMETRIC
OF DRAIN SPLAY




CROSS SECTION

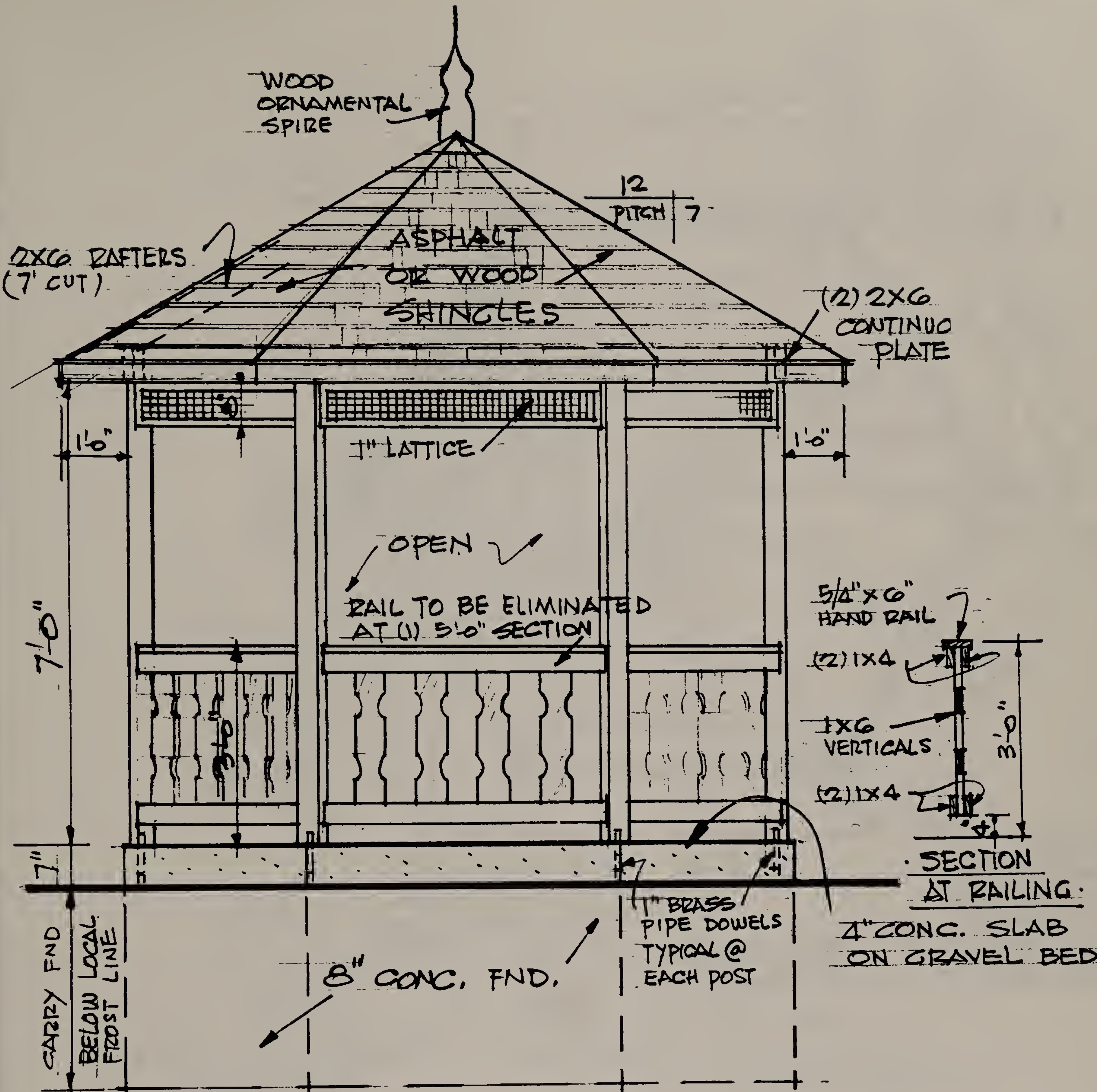
# 12.

# GARDEN GAZEBO

## Like old-fashioned bandstands

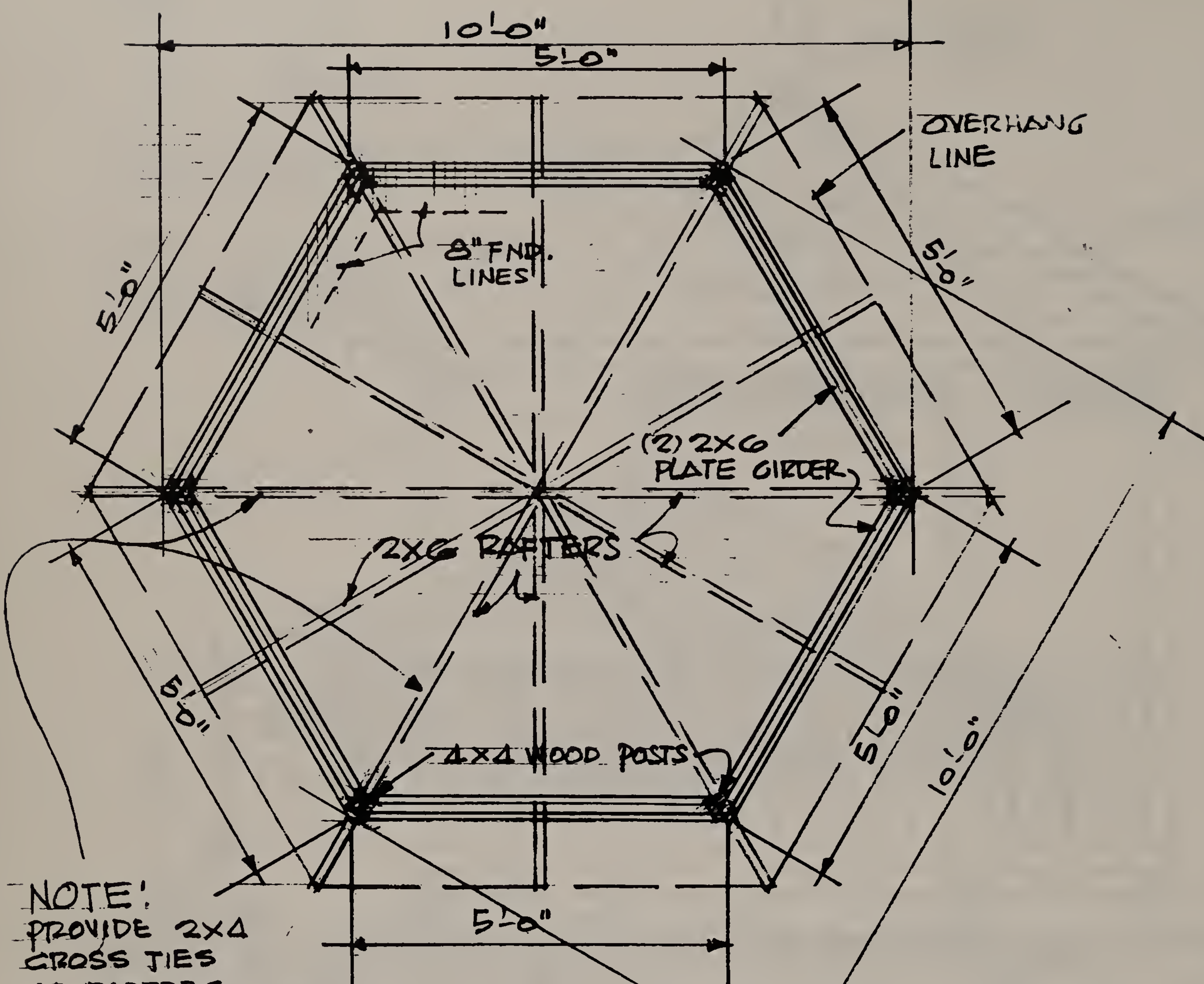


Roofed garden shelter offers year-round shelter. Unit is 7', 7" from grade to roof top and 5' on each side of hexagon. Table and chairs can fit into interior space for outdoor dining. Entire structure can be screened for pest control.

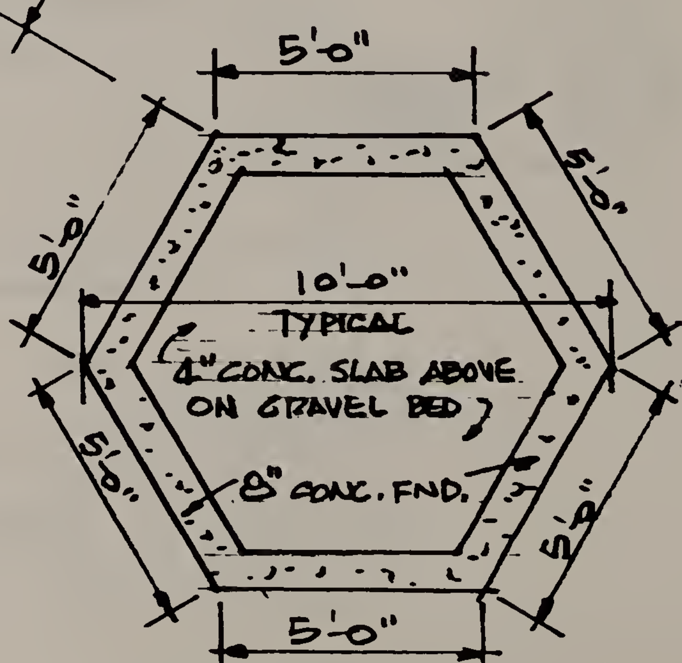



## MATERIAL LIST

| | |
|---|---|
| 6 | 4"x4"/7' POSTS |
| 12 | 2"x6"/5' PLATES (CUT TO FIT) |
| 12 | 2"x6"/7' RAFTERS (" " ") |
| 20 | 1"x6"/2'-6" RAIL VERTICALS |
| 20 | 1"x4"/5' RAIL TOP & BOTTOM |
| 5 | 5/4"x6"/5' HANDRAIL |
| 135 | LIN. FT. 1" LATTICE |
| 6 | 1"φ x 8" BRASS DOWELS |
| 1 | 3/8"x6'x6' PLYWOOD SOFFIT |
| 6 | 1"x4" CORNICE BOARD |
| 126 | SQ. FT. ROOF AREA FOR 3/8" PLYWOOD SHEATHING AND ROOF SHINGLES. |
| 21 | CU. FT. OF CONC. FOUNDATION FOR 1'-0" OF DEPTH (MULTIPLY 21 X EA. FT. OF REQ. DEPTH). |




-PLAN-

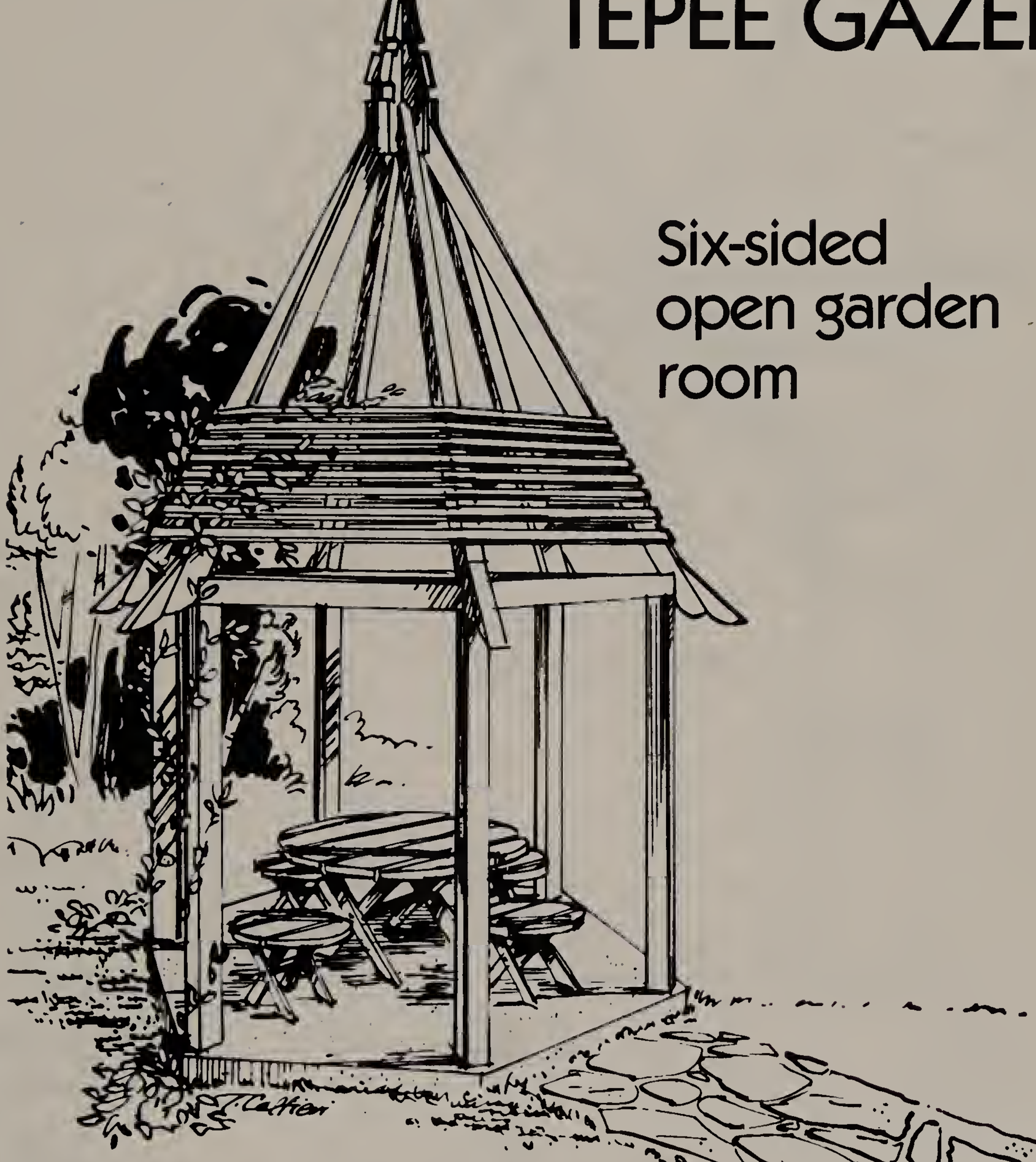



FOUNDATION PLAN

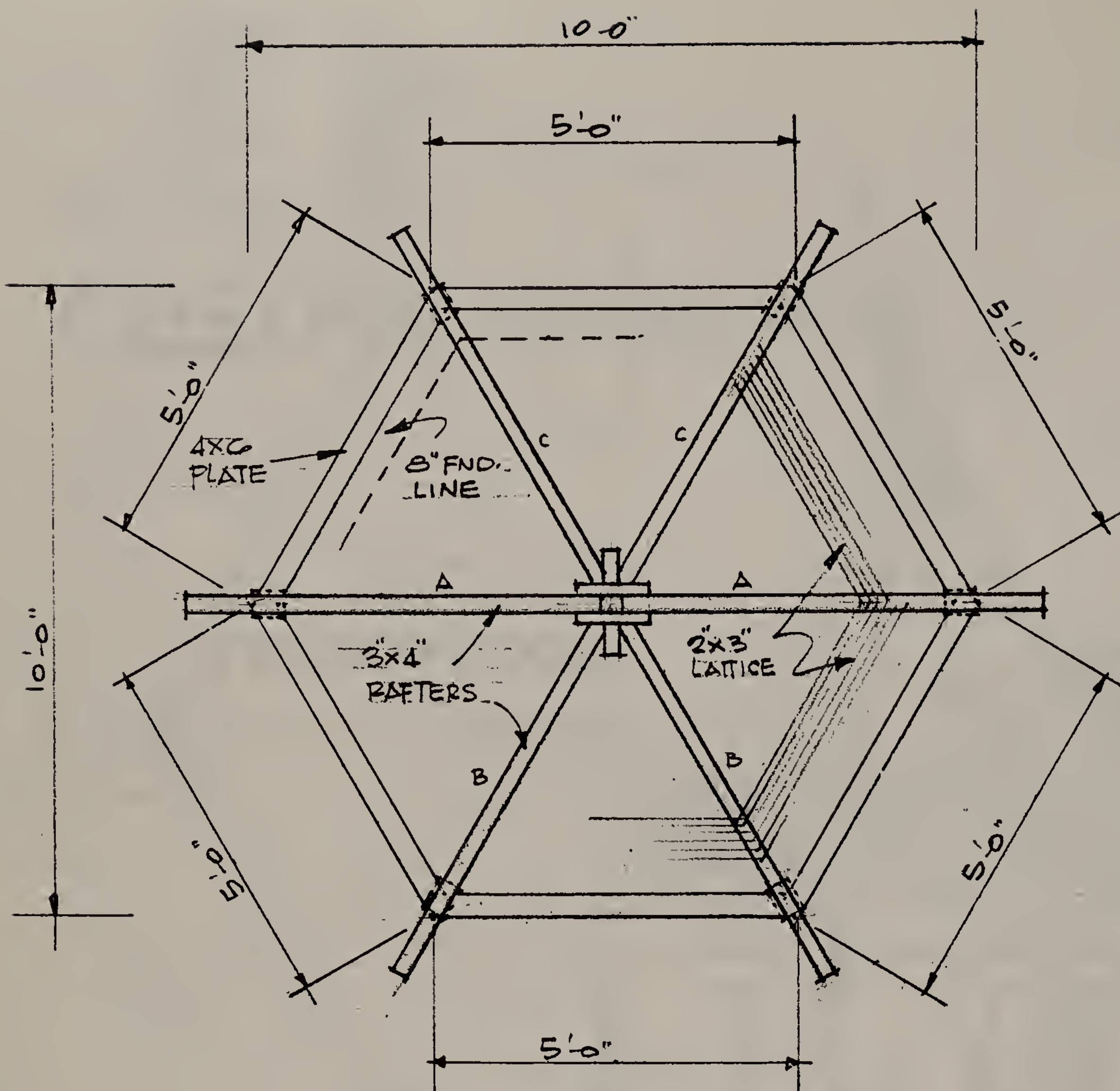
# 13.

# TEPEE GAZEBO

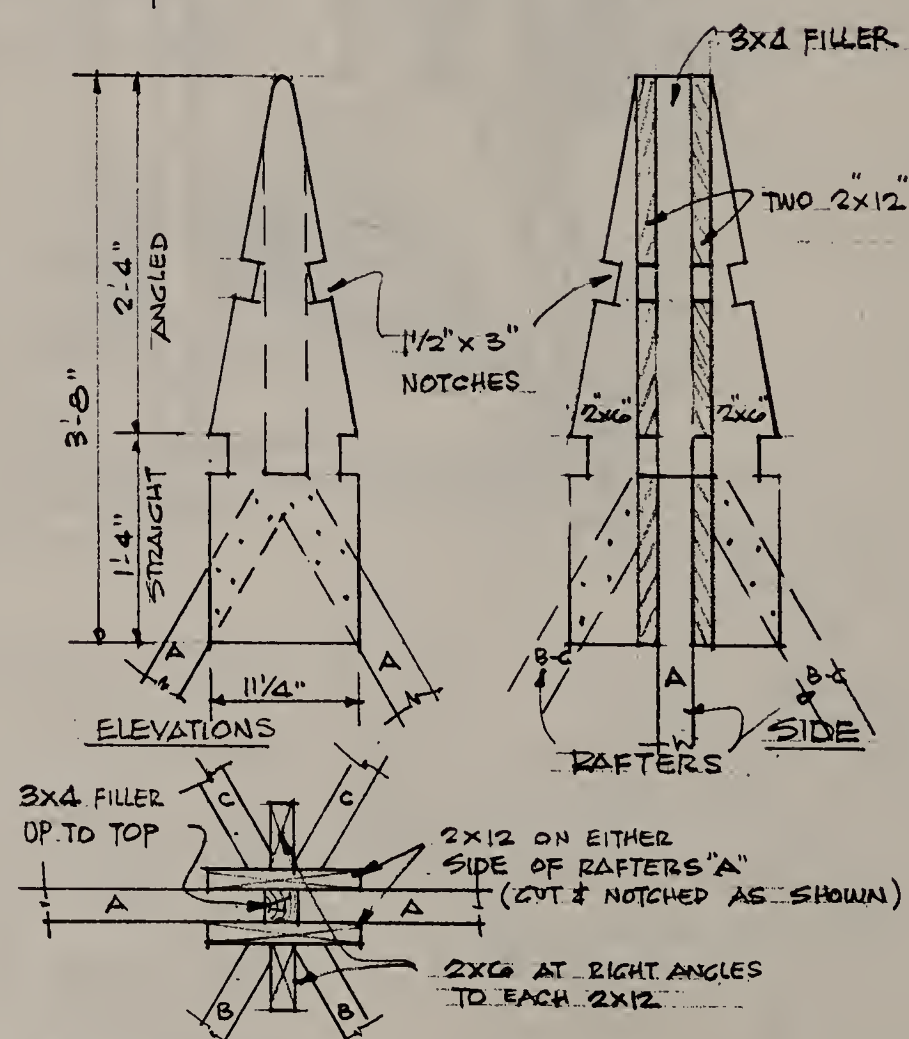
## Six-sided open garden room



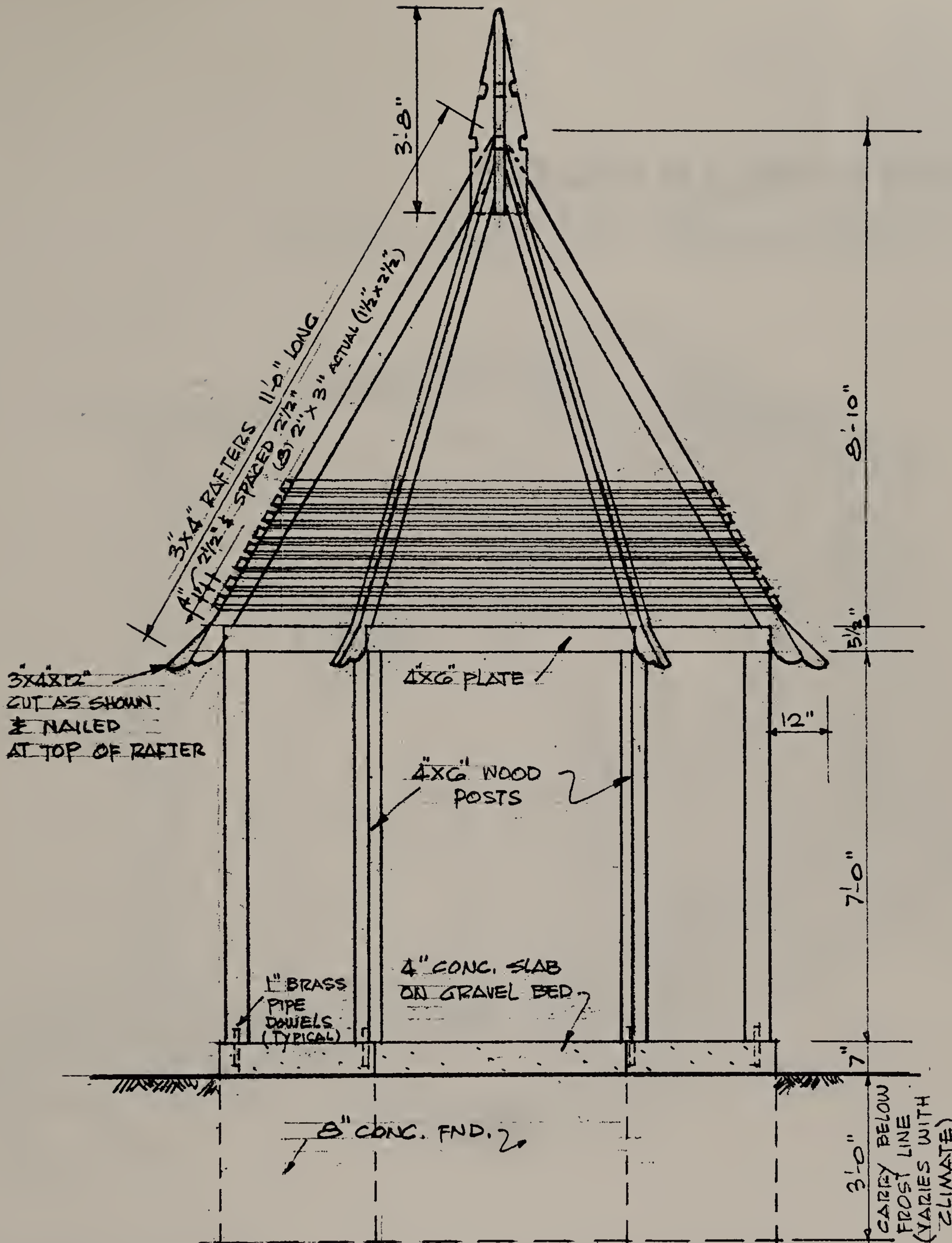
**A** yard is a yard is a yard, but it can be much more. It can, if you plan it that way, be the place where you spend most of your summer time. Make your yard inviting. A gazebo, such as the tepee-inspired design that's pictured here, is sure to lure you outdoors more often. It has a slatted roof that allows for filtered shade. Picnic table can be placed inside for outdoor eating. Screen in sides and roof, if you like. Gazebo is 10 by 10 feet; 17 feet high.




· PLAN ·




· PLAN ·
DETAIL OF CUPOLA




ELEVATION

MATERIAL LIST

| | | |
|---|---|---|
| 6 | 4"x6"/7'-0" | POSTS |
| 6 | 4"x6"/5'-0" | PLATES CUT TO FIT |
| 6 | 3"x4"/11'-0" | RAFTERS " " " |
| 1 | 3"x4"/6'-0" | RAFTER ENDS |
| 240 | LIN. FT 2"x3" | ROOF LATTICE |
| 1 | 3"x4"/3' | FILLER AT TOP |
| 2 | 2"x6"/3'-8" | TOP |
| 2 | 2"x12"/3'-8" | TOP |

# PASSIVE SOLAR SPACES

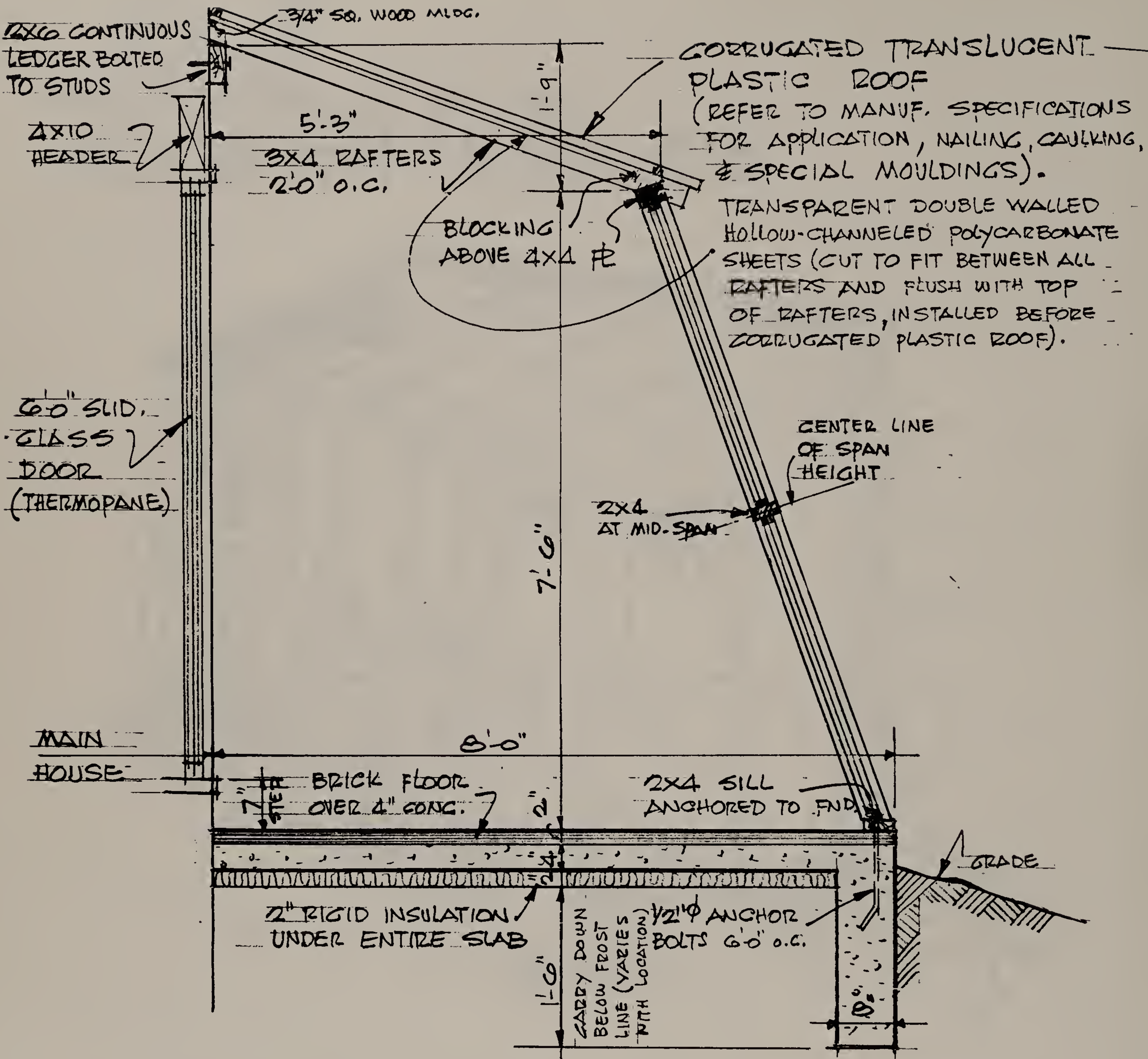
(used by active people and plants)

# 14.
# SOLARIUM TEA ROOM



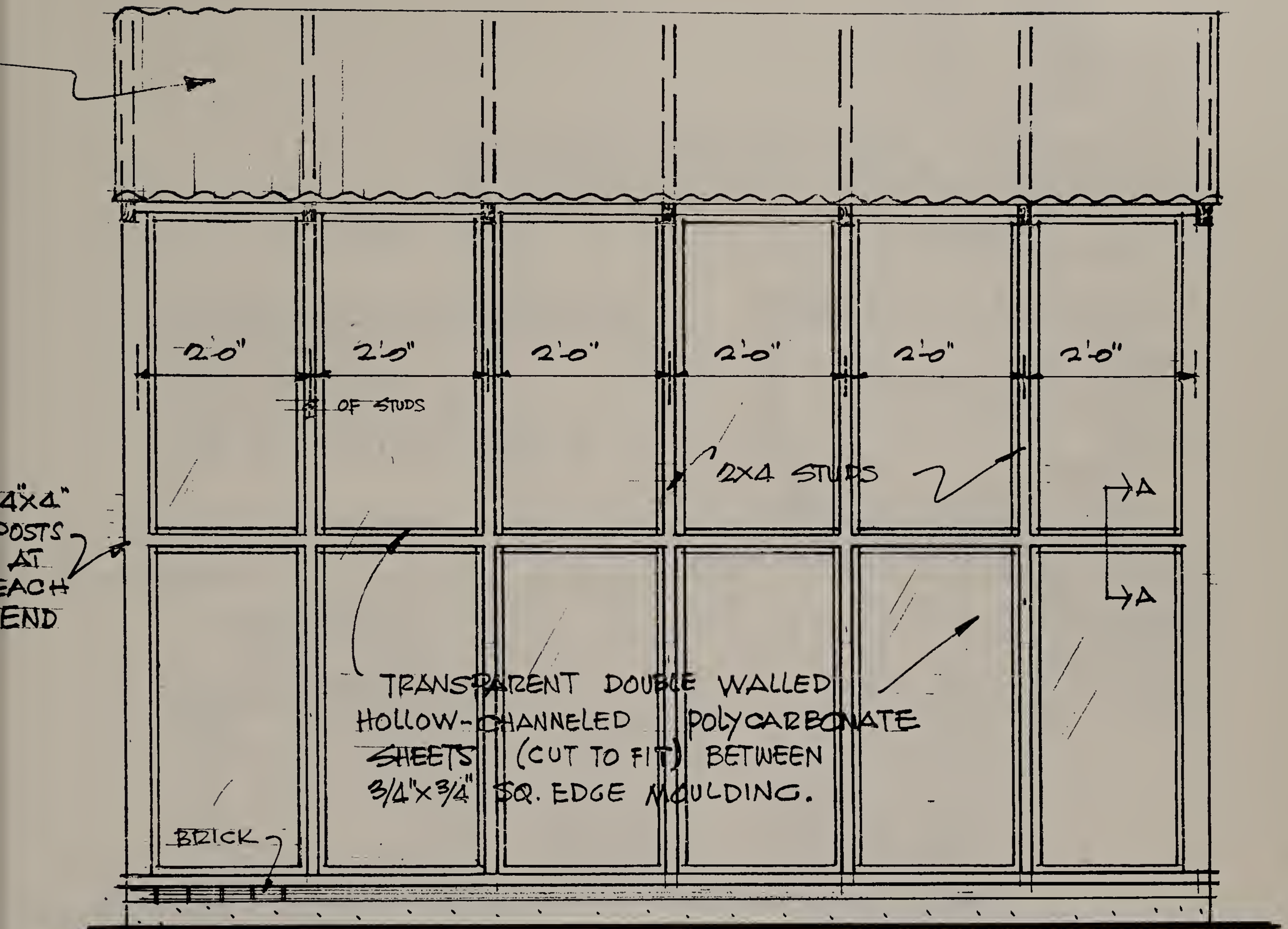
## Saves money on fuel

Add a solarium: The newest status symbol for home owners is a solarium. It can be as compact as this 12'4" by 8' room or larger. In winter, the solarium gathers solar energy that can be blown into the main house to lower heating bills; in summer, exhaust fans at both ends blow out hot air. Construction is redwood with corrugated plastic roof. The room is large enough for a table if your family enjoys dining with a garden view—and in this room, winter as well as summer, there is one.

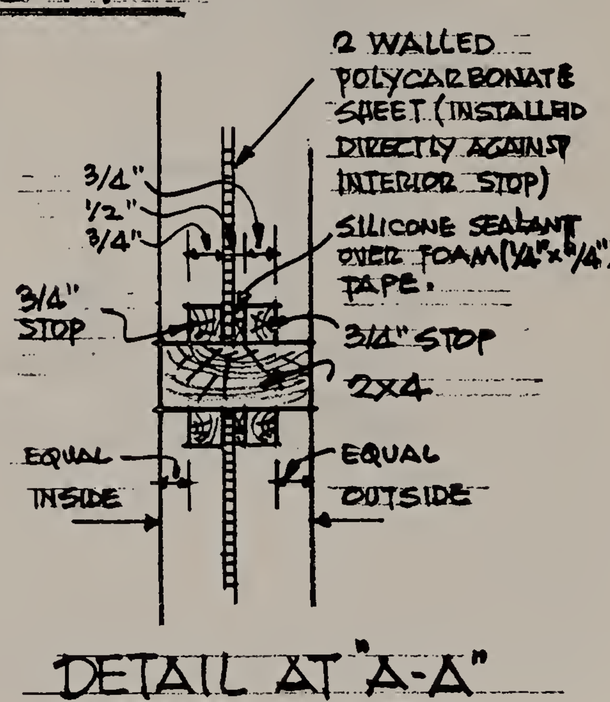



## · MATERIAL LIST ·

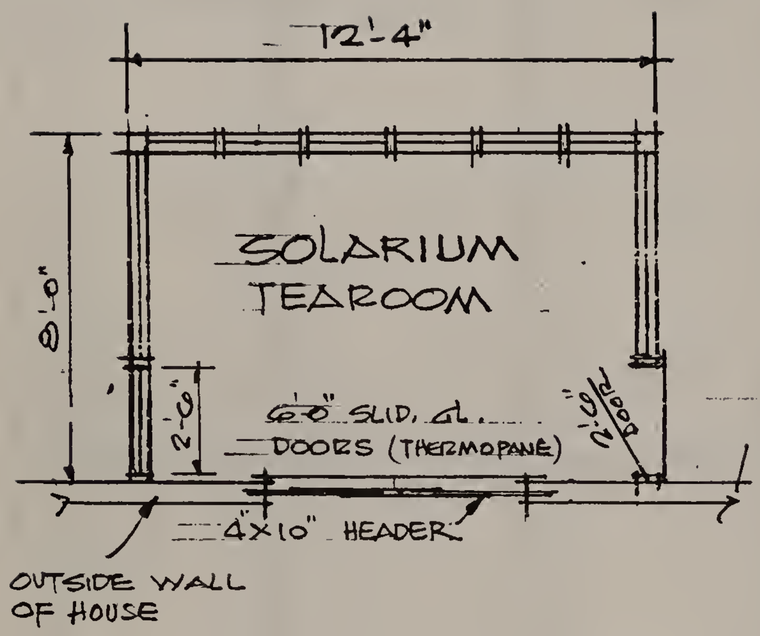
| | | |
|---|---|---|
| 9 | 2x4 | 8'-0" LONG |
| 2 | 4x4 | 8'-0" LONG |
| 7 | 2x4 | 6'-0" LONG |
| | 4x4 | (1) 12'-4", (1) 10'-0" ℞ |
| | 2x4 | (1) 12'-4", + 32 LIN FT (SIDE ℞ & SILL) |
| 235 | SQ. FT. | POLYCARBONATE SHEETS |
| 74 | SQ. FT. | CORRUGATED PLASTIC (ROOF) |
| 360 | LIN. FT. | 3/4" x 3/4" SQ. EDGE WOOD MOULDING |
| 100 | SQ. FT. | COMMON BRICK (FLOOR |
| 1 | | 3/4" x 4'-0" x 5'-0" GROOVED PLYWOOD |
| 1 | | 6'-0" x 6'-8" SLID. GL. DOOR (THERMOPANE) |



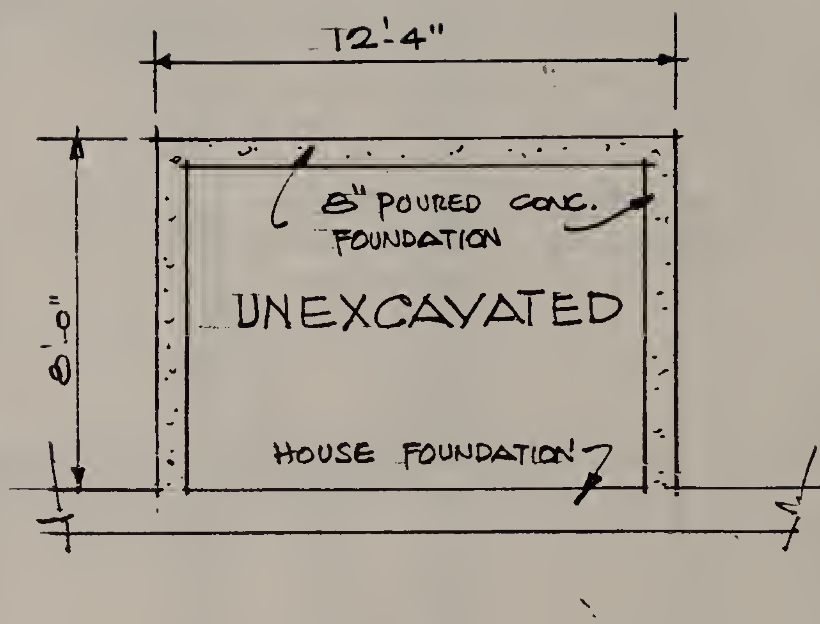

· ELEVATION ·



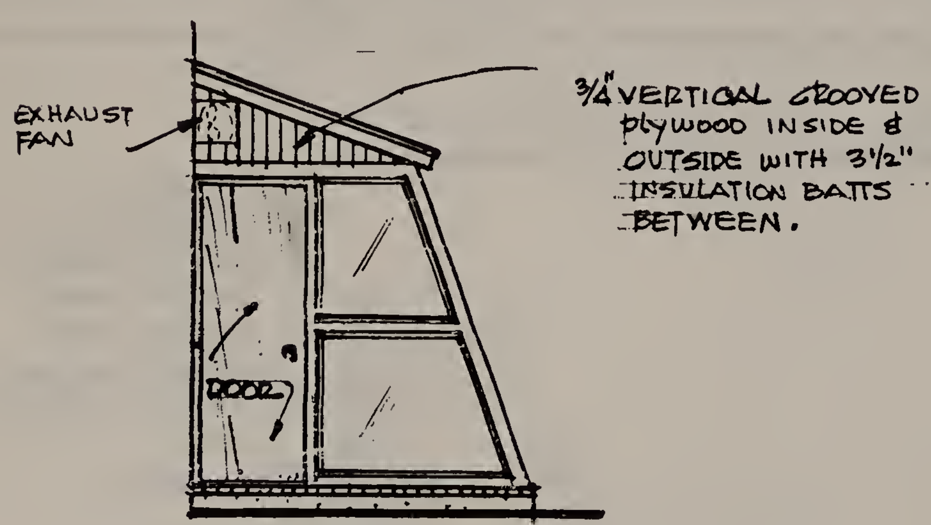

DETAIL AT "A-A"



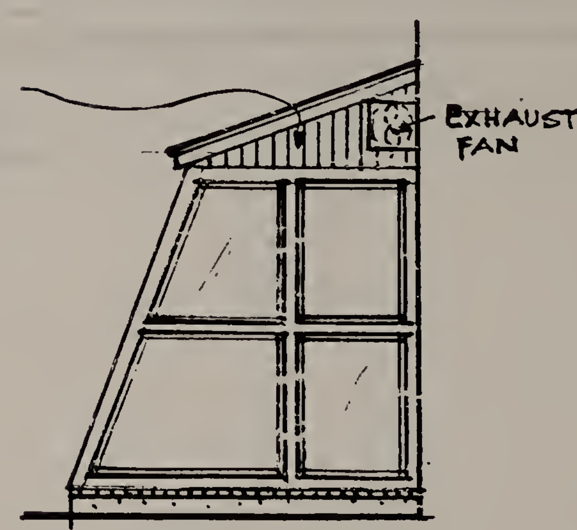

FLOOR PLAN




· FOUNDATION PLAN ·



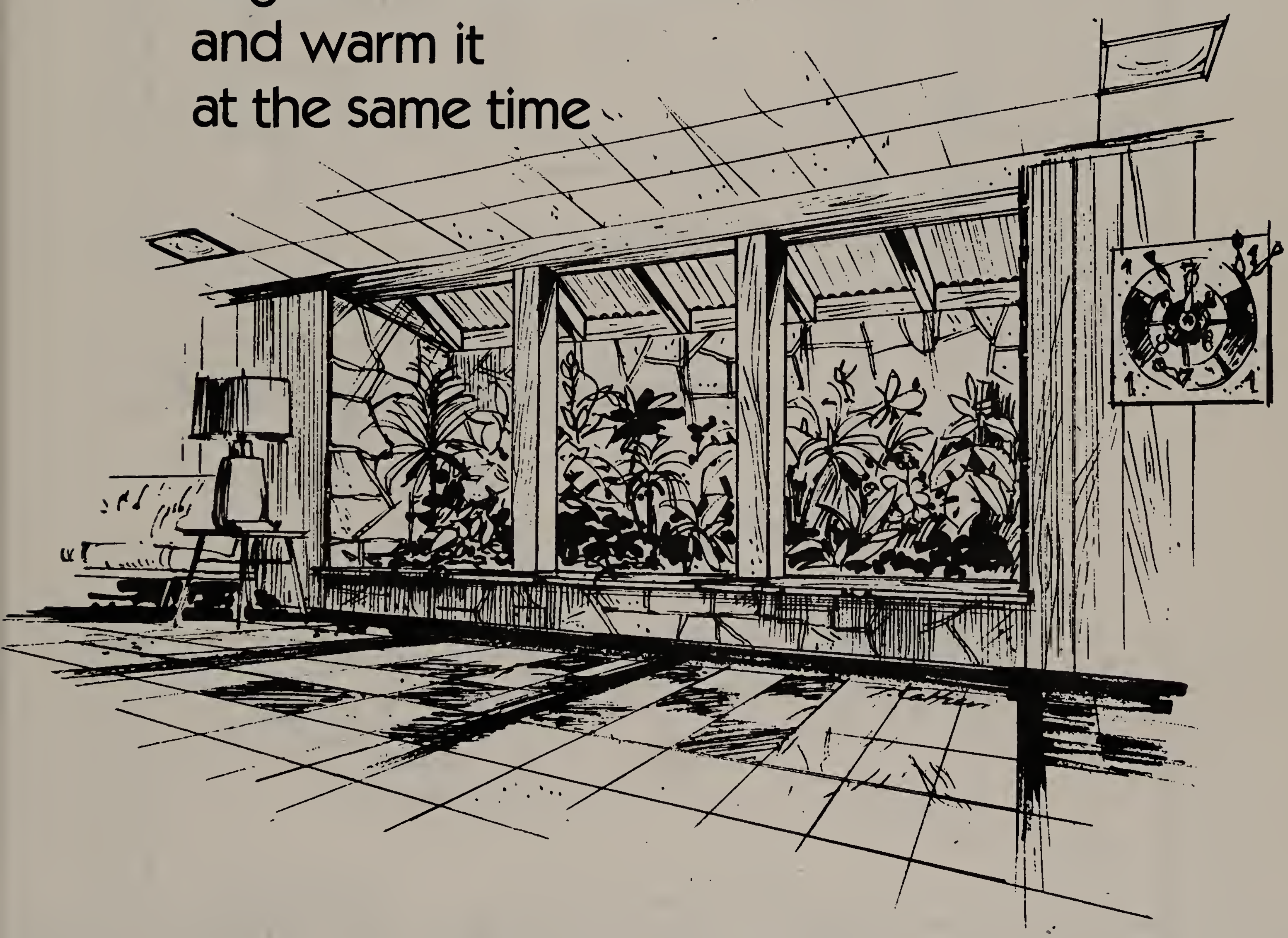

· LEFT SIDE ·



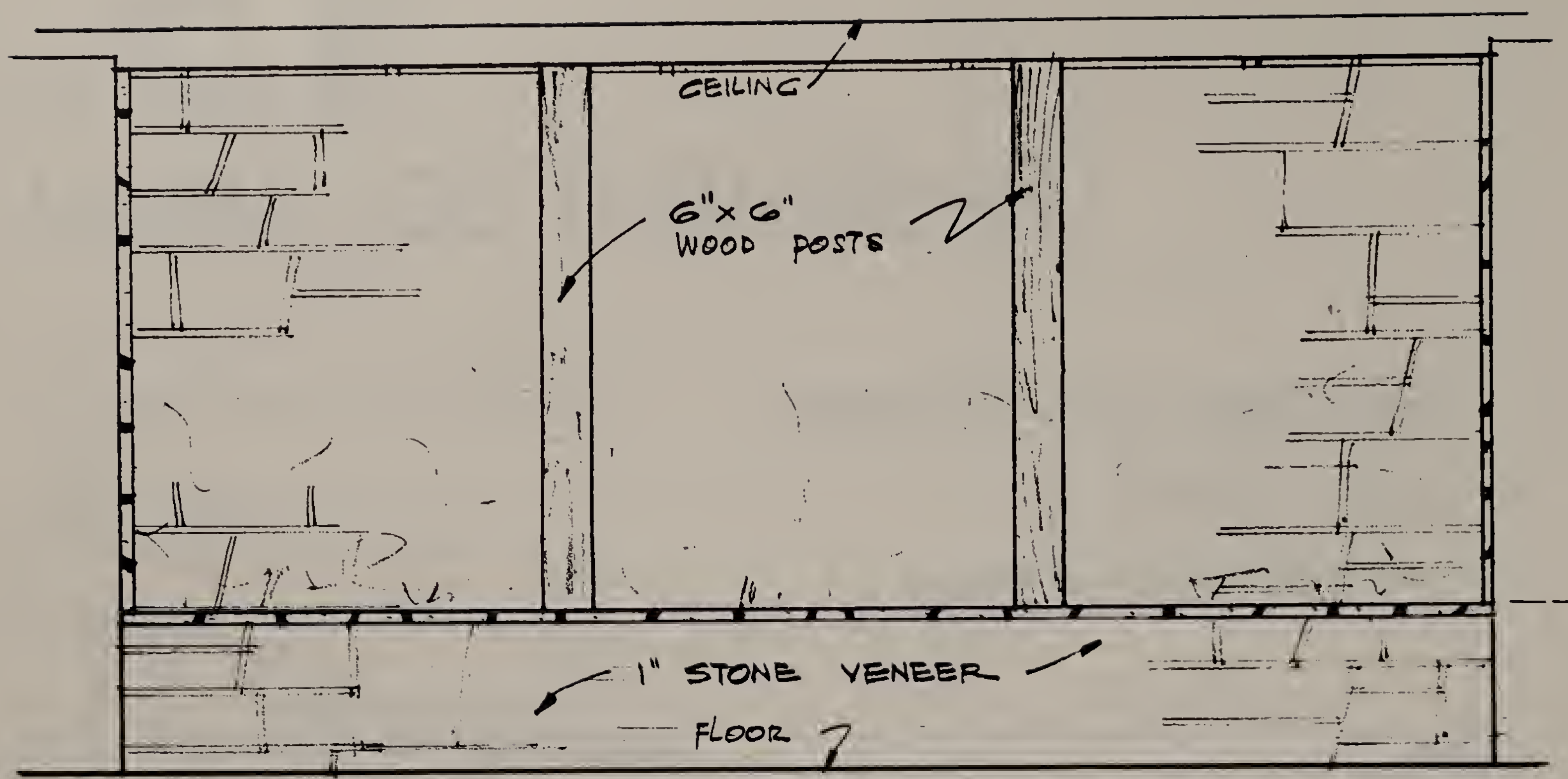

· RIGHT SIDE ·

# 15. BASEMENT SOLARIUM

## Brighten a basement and warm it at the same time

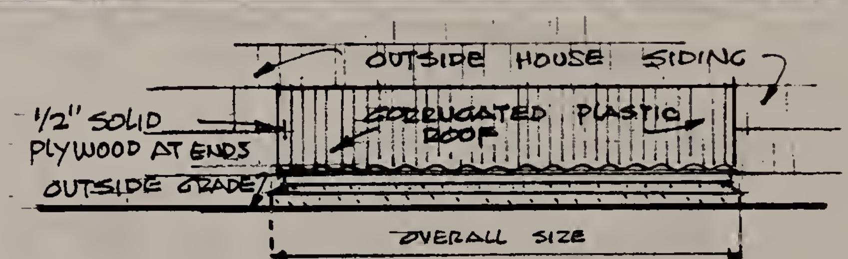


**A**dd a solarium: Brighten a basement room by adding a solarium 12 feet, 11 inches wide; 3 feet deep; room height. It can be added to an existing home or included in plans for a new one. Built on the south side of the house, it provides solar heat. Fluorescent lighting is concealed at top. The finish is stone facing.

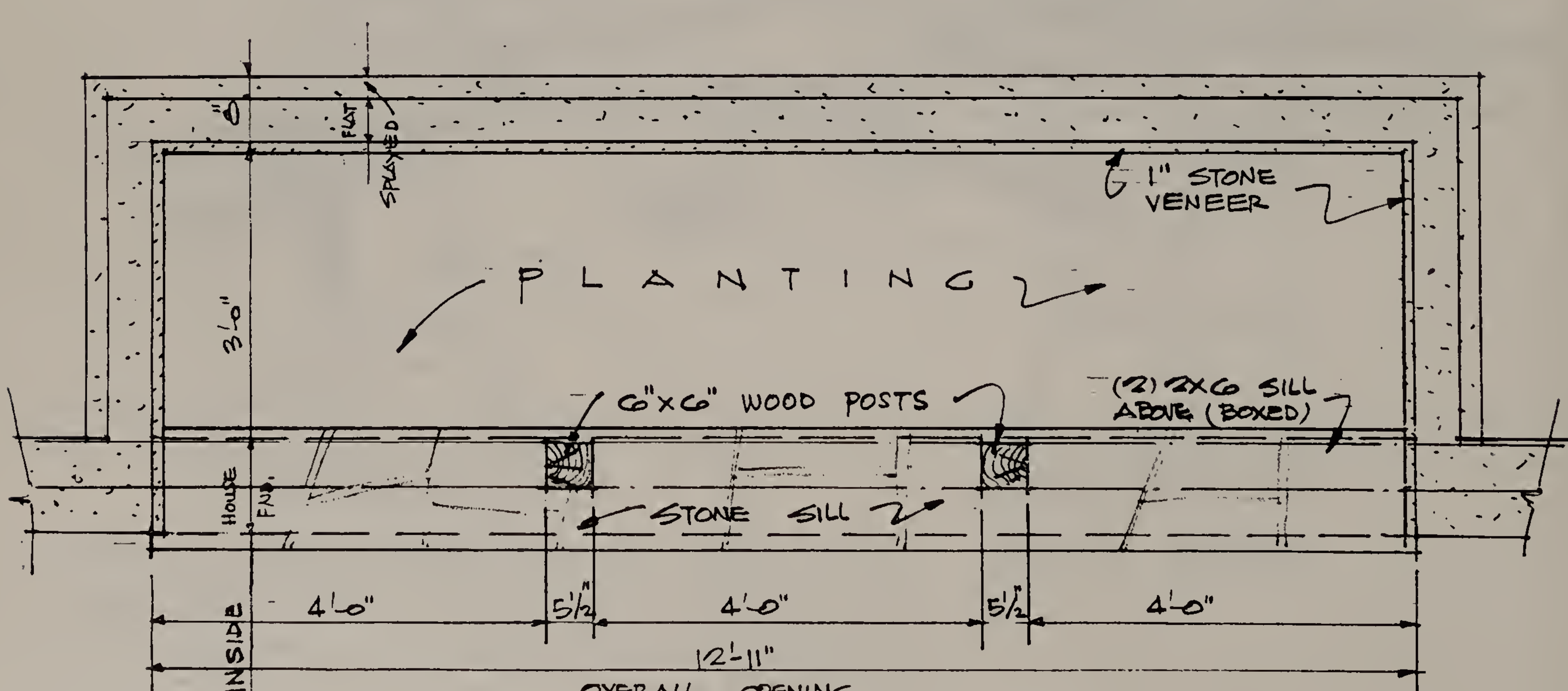



· ELEVATION ·

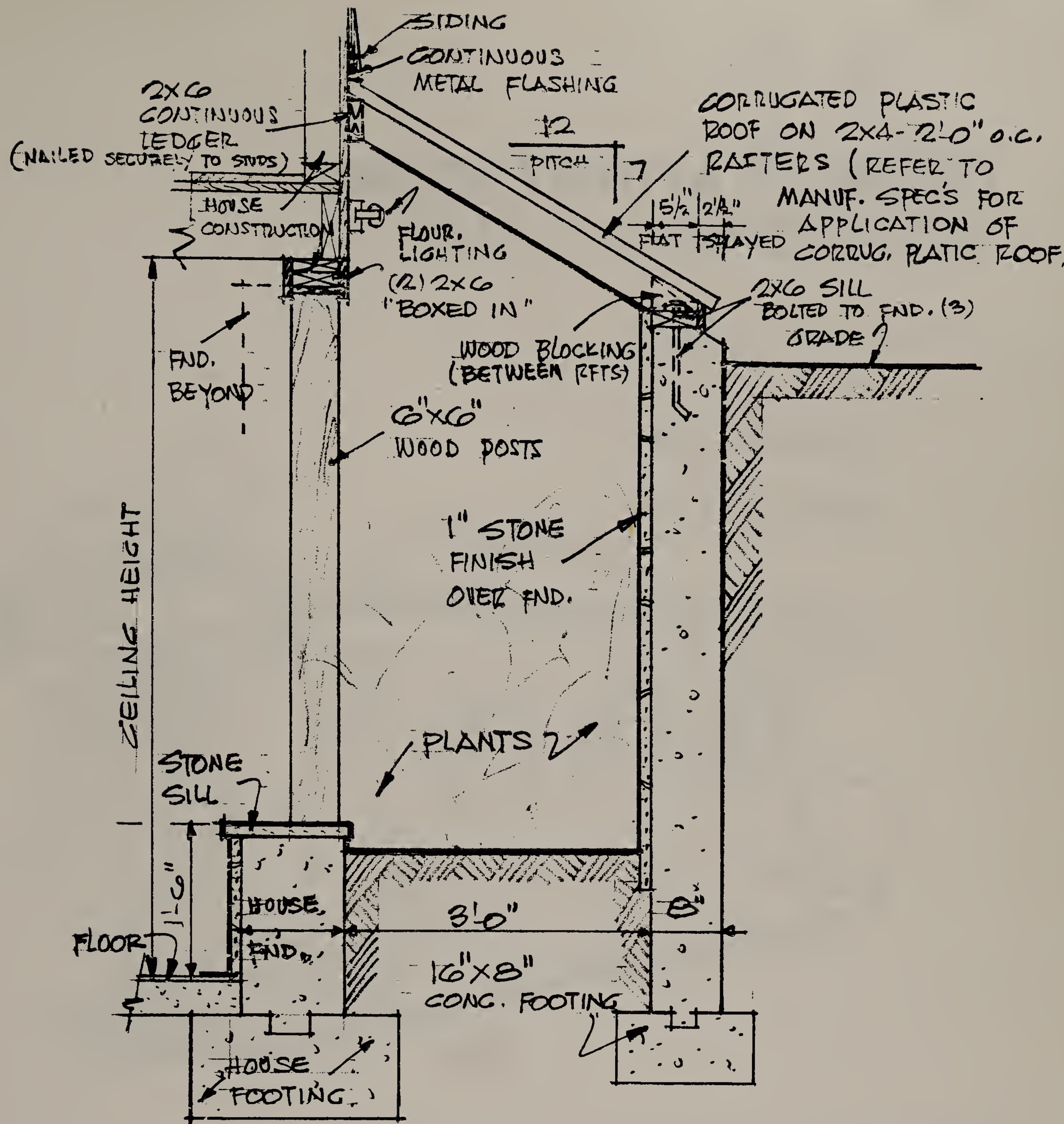
SCALE 3/4"=1'-0"




EXTERIOR ELEVATION ·




· PLAN ·




## MATERIAL LIST

| | | |
|---|---|---|
| 6 | 2X4 | 4'-0" LONG |
| 2 | 2X6 | 14'-0" LONG |
| 2 | 2X6 | 3'-0" LONG |
| 56 | SQ. FT. | CORRUGATED PLASTIC (ROOF) |
| 2 | 6X6 | 5'-6" LONG (CUT TO FIT) POSTS |
| 3 | 1X6 | 14'-0" LONG (CUT- FOR (2) 2X6 SILL) |
| 100 | SQ. FT. | 1" STONE VENEER |
| 131 | SQ. FT. | CONCRETE |
| 3 | | 1/2" ϕ X 10" ANCHOR RODS |
| 1 | 8'-0" | FLOUR. LIGHTING FIXTURE |

# CHILDREN'S ACTIVITY HOUSES

(with storage for bikes, etcetera)

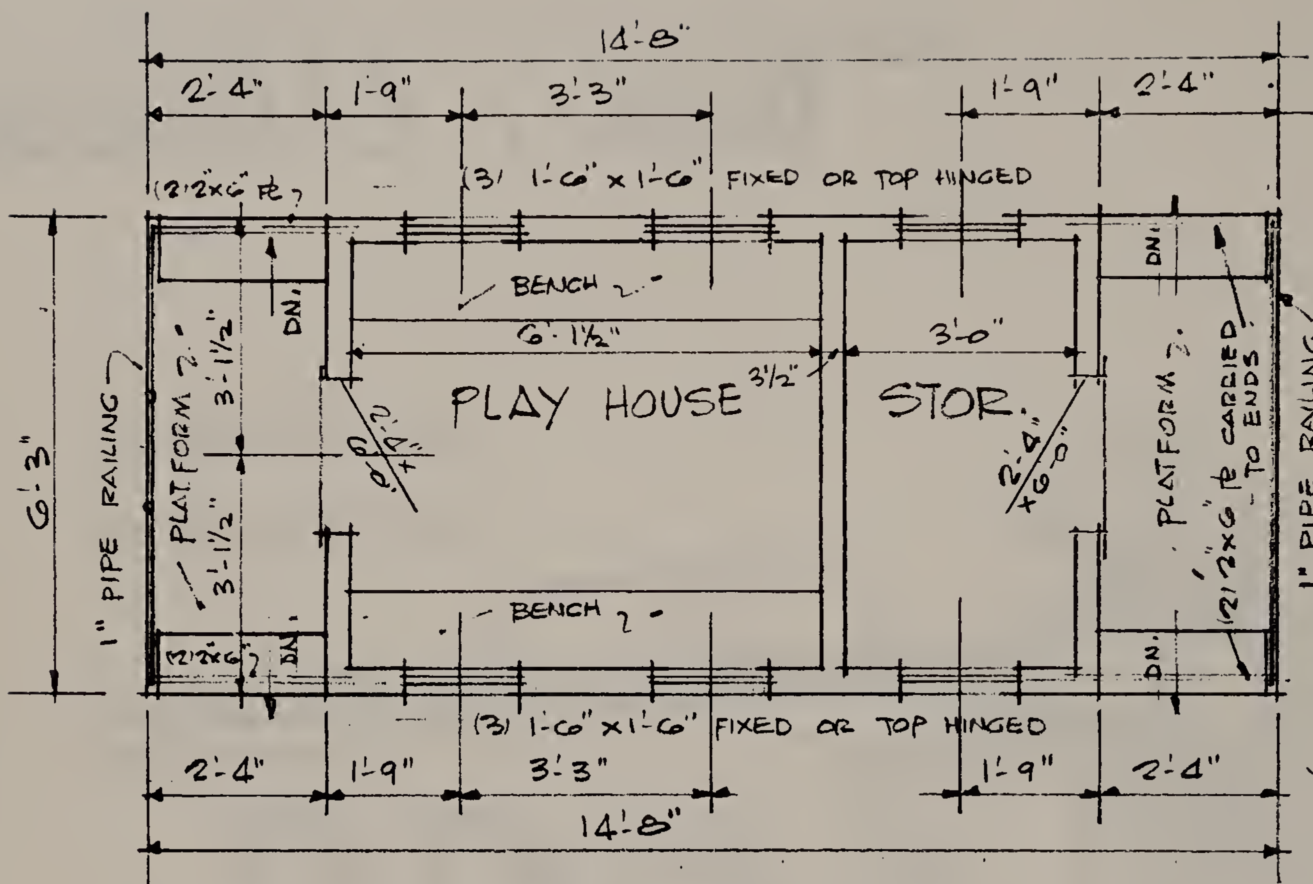
# 16.

# BUILD A CABOOSE

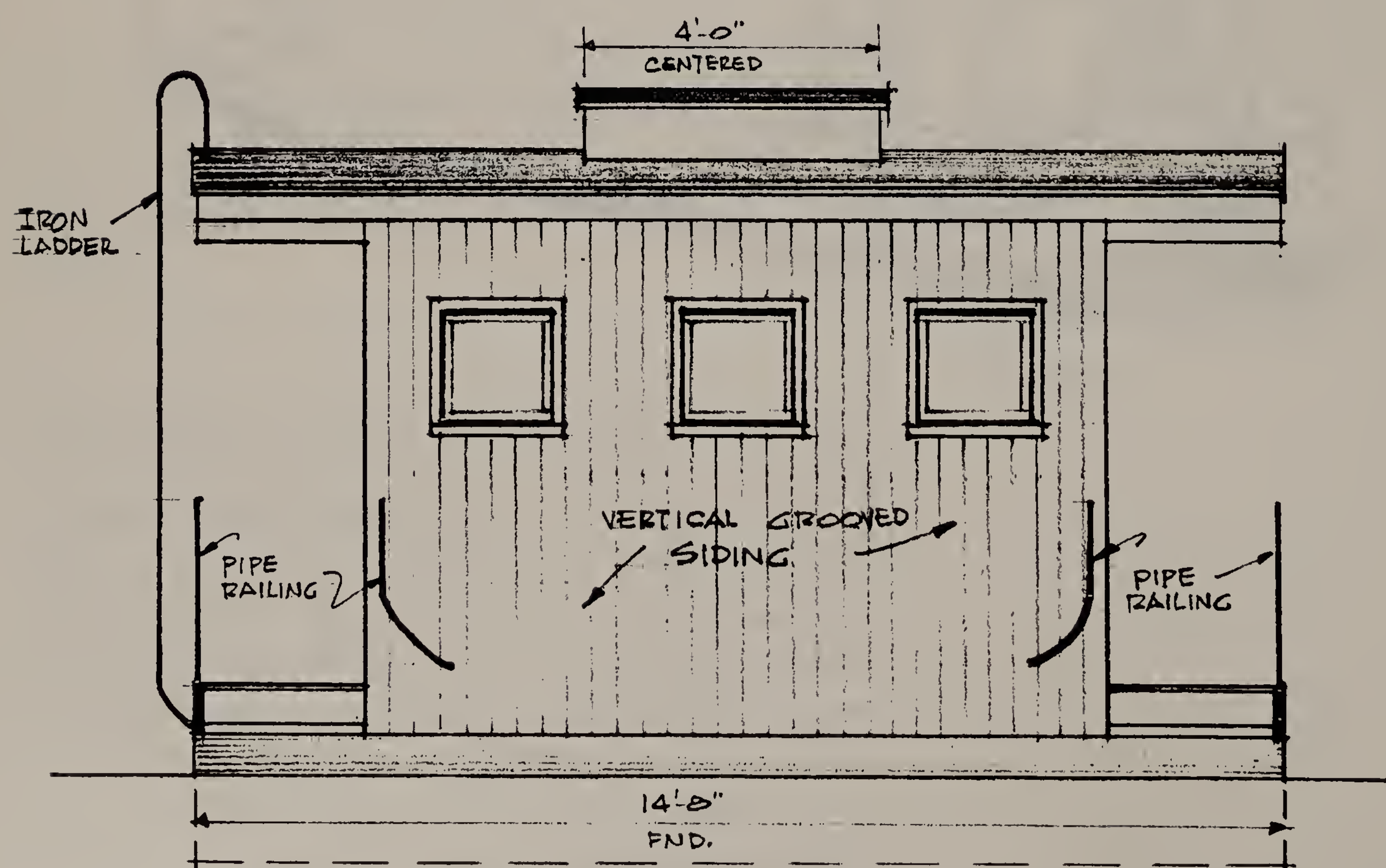
## For children and storage



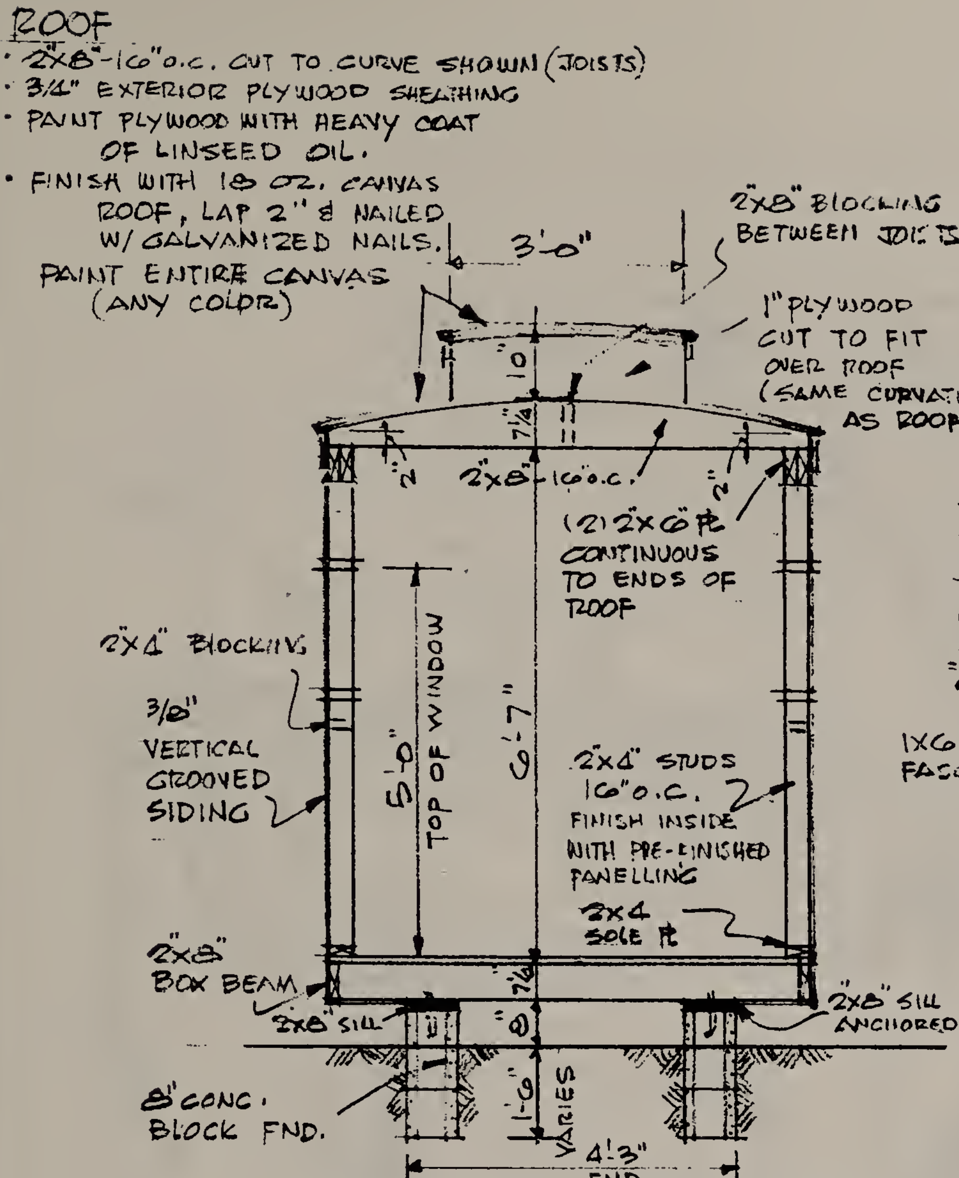
**D**on't hitch up this colorful caboose, build it in your yard and use one of its rooms for storage, the other for a playhouse or poolside dressing room. Built on a concrete block foundation, it has doors at either end, windows on both side walls. Waterproof canvas is stretched over the curved wood roof to form a finish. Vertical grooved siding can be painted in bright colors or stained, as you prefer; caboose is 6 feet, 3 inches wide by 14 feet, 8 inches long, including platforms at either end, by 8 feet, 7 inches high.



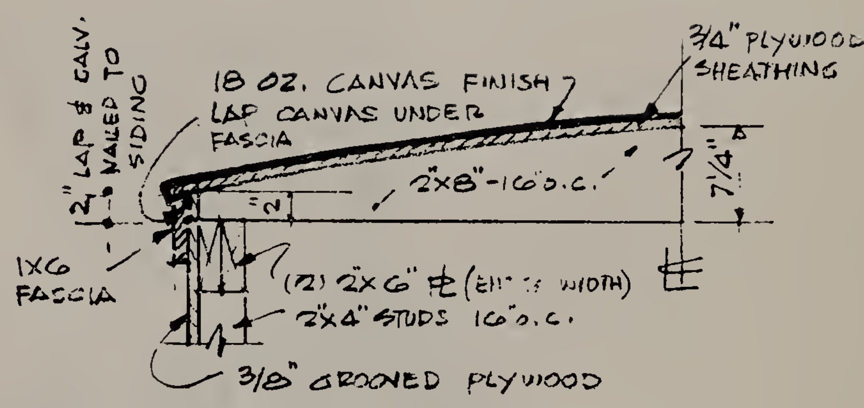

· FLOOR PLAN ·



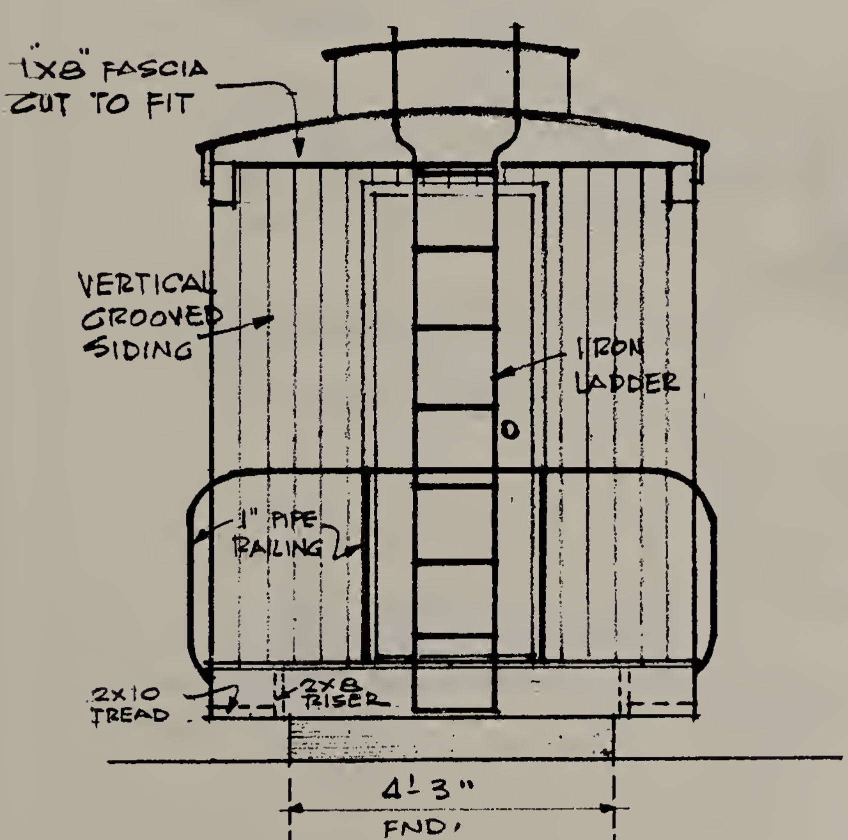

· ELEVATION ·




· CROSS SECTION ·




1/2 ROOF DETAIL




· ELEVATION ·

## MATERIAL LIST

| LOCATION | SIZE | PIECES | LIN. FT. |
|---|---|---|---|
| FLOOR JOISTS | 2x6 | 13/6' | 78 |
| ROOF JOISTS | 2x8 | 11/6'-3" | 70 |
| BOX BEAM | 2x6 | 2/15' | 30 |
| BRIDGING @ ROOF | 2x8 | 1/10' | 10 |
| PLATE PL | 2x6 | 4/15' | 60 |
| STUDS | 2x4 | 40/6' | 240 |
| SOLE PL & BLOCKING | 2x4 | – | 76 |
| TREAD | 2x10 | 1/10 | 10 |
| FLOORING | 3/4" PLY. | 91 | SQ. FT. |
| ROOF SHEATHING | 3/4" PLY | 91 | SQ. FT. |
| SIDE WALLS | 3/8" | 187 | SQ. FT. |
| CONC. BLOCK | 8"x16" | 84 UNITS | |
| WINDOWS | 1'-6" SQ. | 6 UNITS | |
| DOORS | 2'x6' | 2 UNITS | |

# 17.

# PLAY TRAIN FOR THE YARD

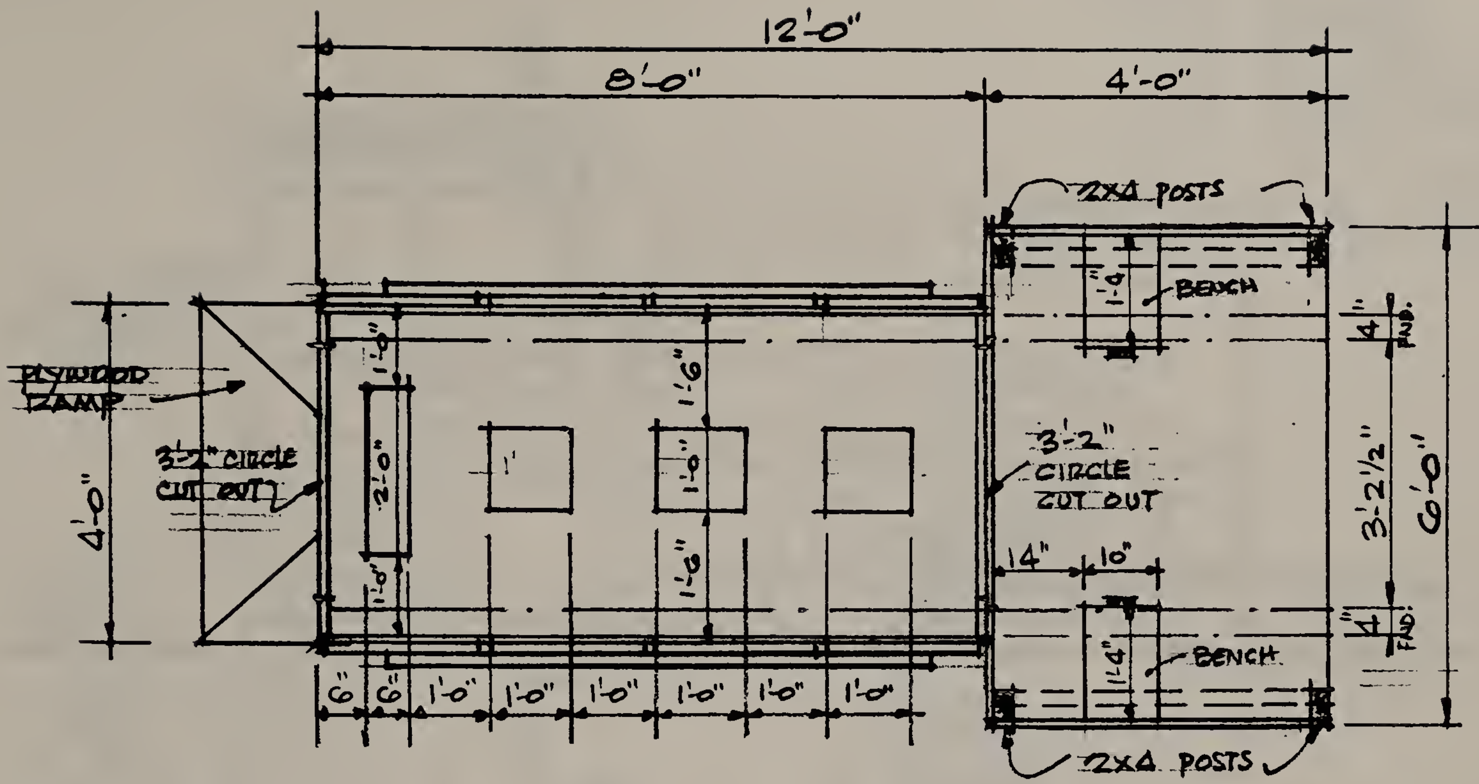


## All aboard for fun

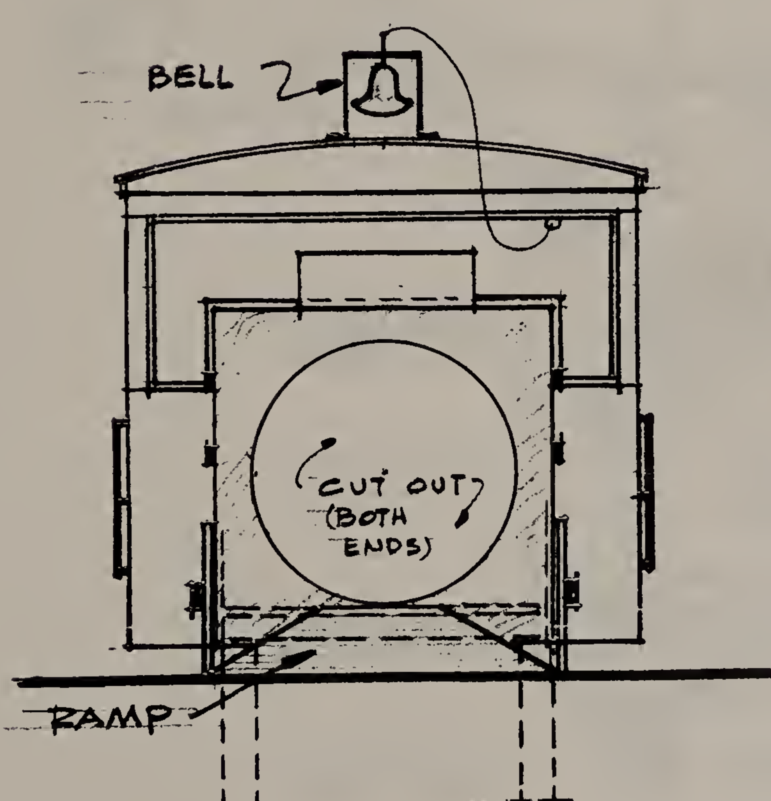
Make your yard the talk of the town by building this playtime locomotive. In the cab, there are built-in benches and the entrance to a tunnel that leads out front. Construction is wood on concrete block foundation.

The locomotive is 12 feet long; 4 feet wide at front, 6 feet wide for rear cab; height is 6 feet, 4 inches.

Paint the play train bright colors and your youngsters will love it. So will every kid in the neighborhood.



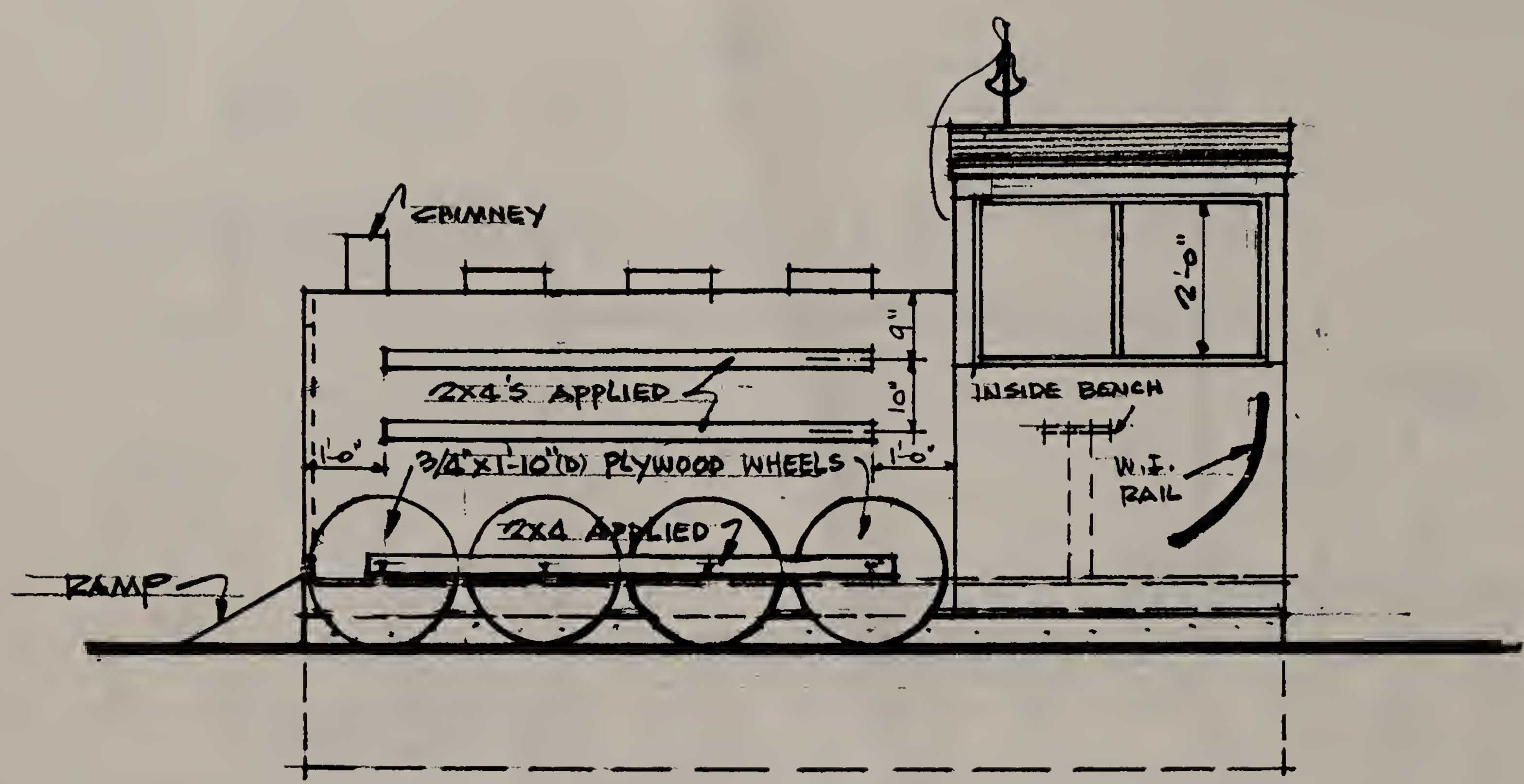

· PLAN ·



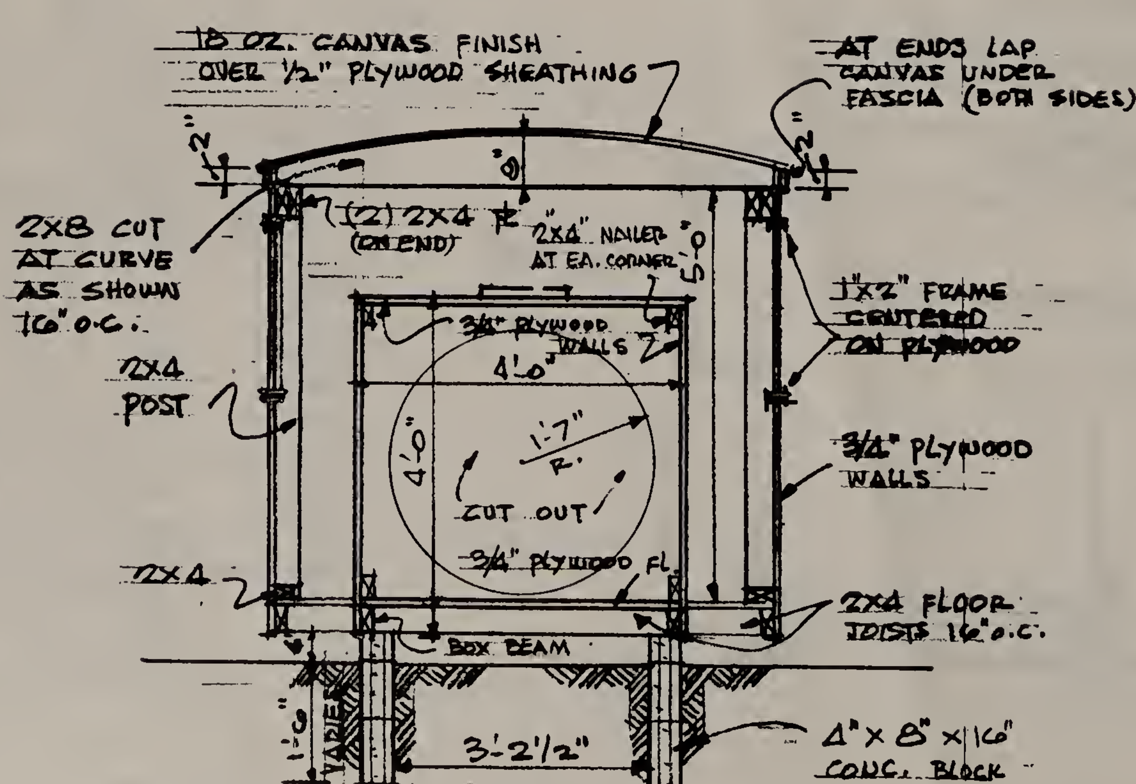

· FRONT ·

MATERIAL LIST

| LOCATION | SIZE | PIECES |
|---|---|---|
| FLOOR JOISTS | 2"x4" | 7/4' 4/6' |
| ROOF JOISTS | 2"x8" | 4/6' |
| BOX BEAM | 2"x4" | 3/8' |
| POSTS | 2"x4" | 4/6' |
| PLATES (PL) | 2"x4" | 4/4' |
| BOTTOM PL | 2"x4" | 2/4' |
| FLOORING | 3/4" PLY. | 1-4'x8' 1-4'x6' |
| ROOF SHEATHING | 1/2" PLY. | 1-4'x8' |
| WALLS & TOP (FRONT) | 3/4" PLY. | 4-4'x8' |
| WALLS (REAR) | 3/4" PLY | 3-4x6 |
| WINDOW FRAME | 1"x2" | 58 LIN. FT. |
| WHEELS | 3/4" PLY | 1-4x8 |
| MISC. | 2"x4" | 4/6' 2/7 |
| BENCH | 1"x10" | 1/3' |




·SIDE·




·SECTION·

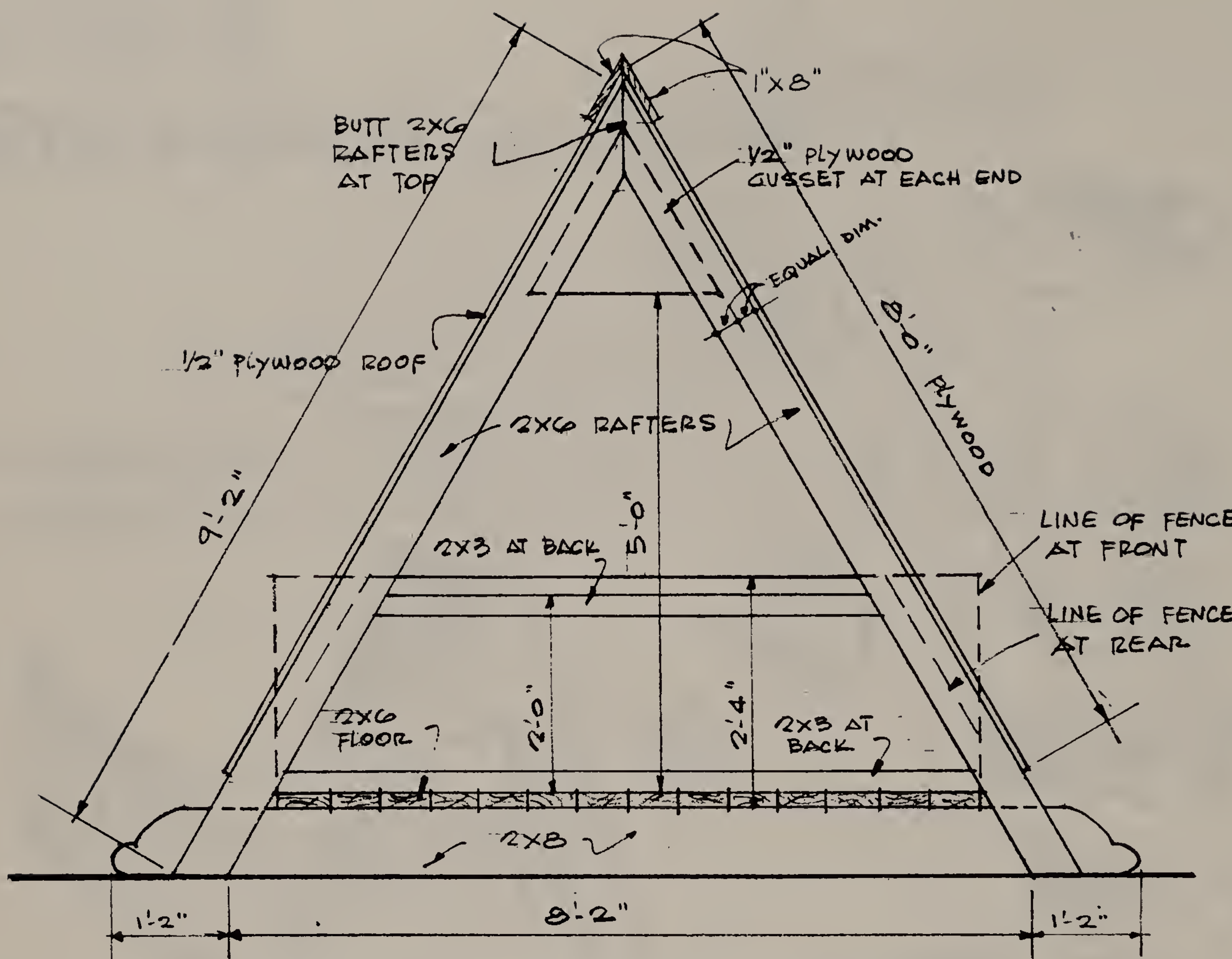
# 18.

# A-FRAME PLAYHOUSE



## It's easy to build

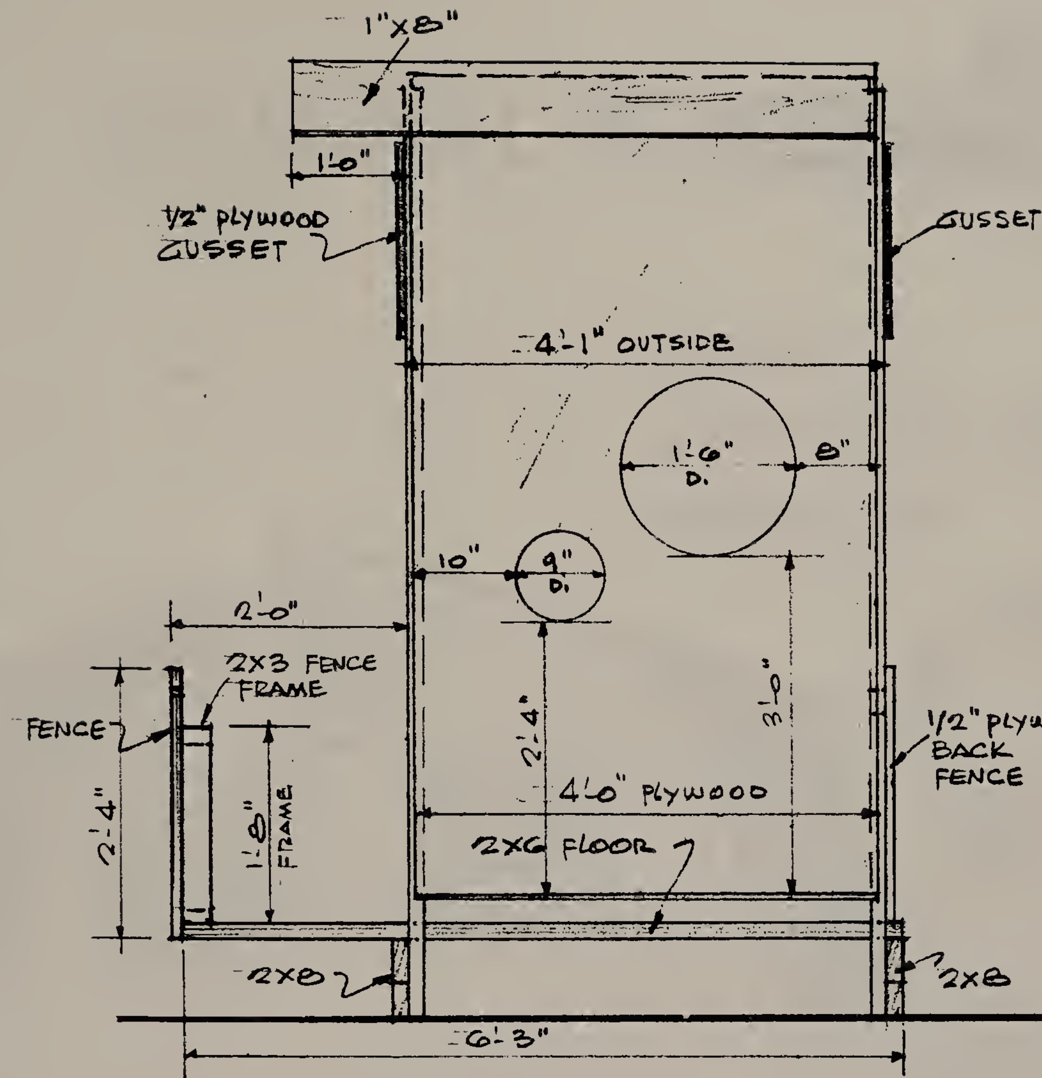
**P**layhouse plan: Instead of pitching a tent, the kids will enjoy having their own A-frame playhouse. It's easy to build with 4' x 8' plywood used for each side of roof. Wood deck projects forward to form a front porch. Fence is a nice finishing touch. Ideal for summer sleep-outs, playhouse is 7 feet wide by 8 feet high with a 6-foot, 3-inch deep deck.



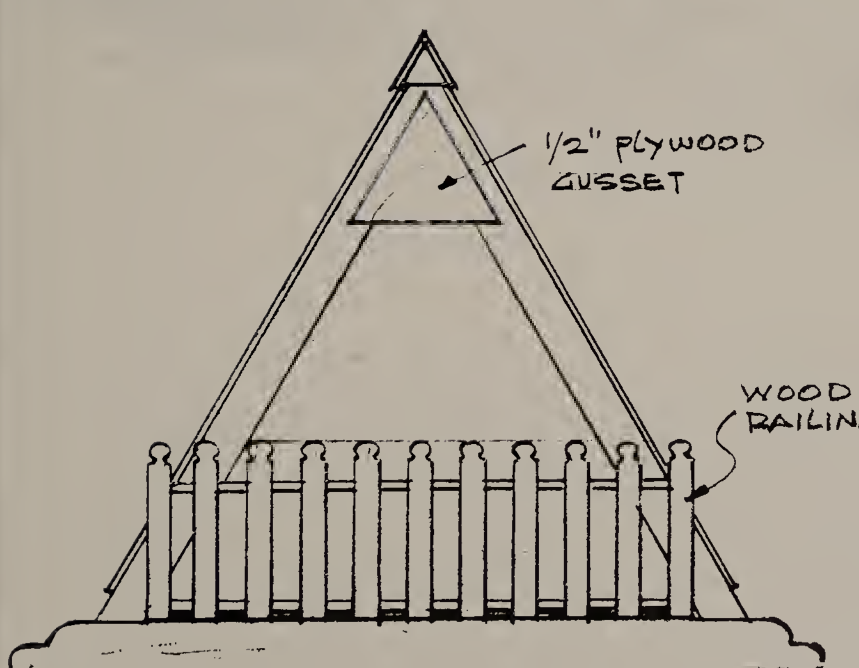

## · CONSTRUCTION SECTION ·

## MATERIAL LIST

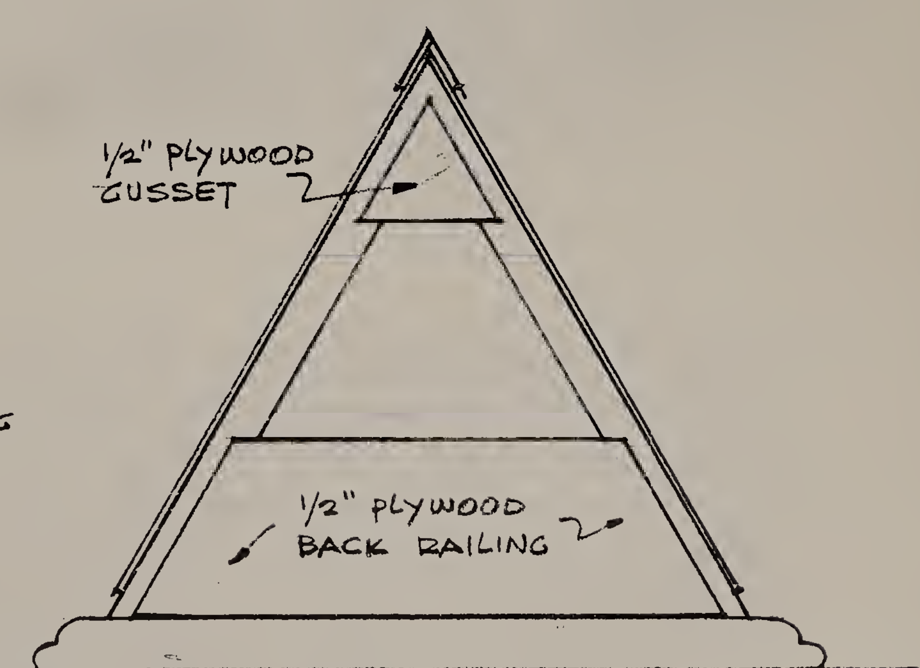
| | |
|---|---|
| 4 | 2X6 RAFTERS 9'-2" LONG |
| 2 | 2X8 FLOOR JOISTS 10'-6" LONG |
| 14 | 2X6 FLOORING 6'-3" LONG |
| 30 | LIN. FT. 2"X3" RAIL FRAME |
| 28 | LIN. FT. 1"x4" FRONT RAILING |
| 2 | 1/2"x4'x8' PLYWOOD ROOF |
| 1 | 1/2"x4'x7' PLYWOOD BACK RAIL & GUSSETS |
| 2 | 1"X8"X5'-0" TOP RIDGE COVER |




·SIDE ELEVATION·




·FRONT ELEVATION·




·REAR ELEVATION·

# BARNS FOR PEOPLE AND CARS

(or boats and goats)

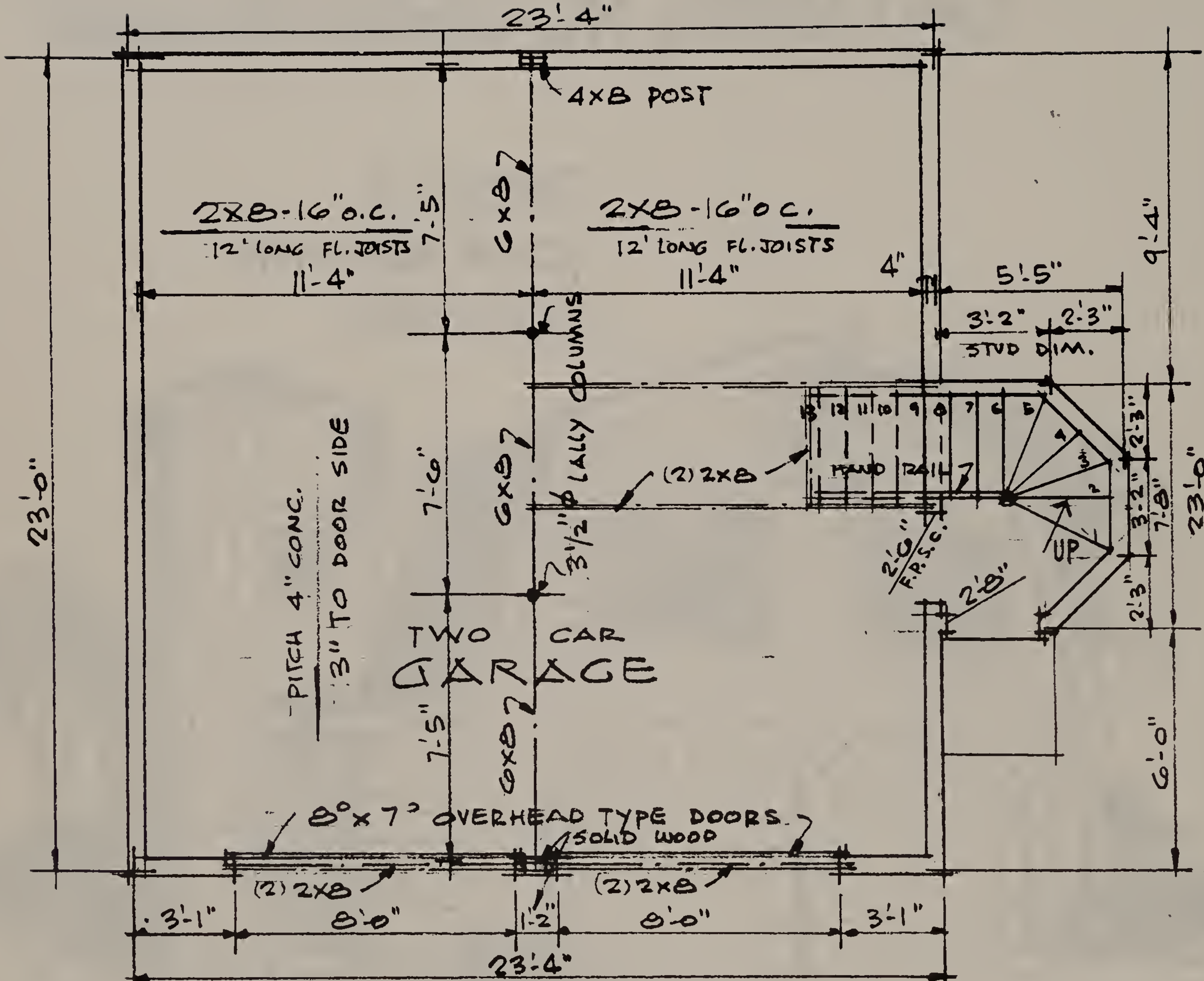
# 19.

# GAMBREL ROOFED "BARN"

## There's a spiral stairway in the silo

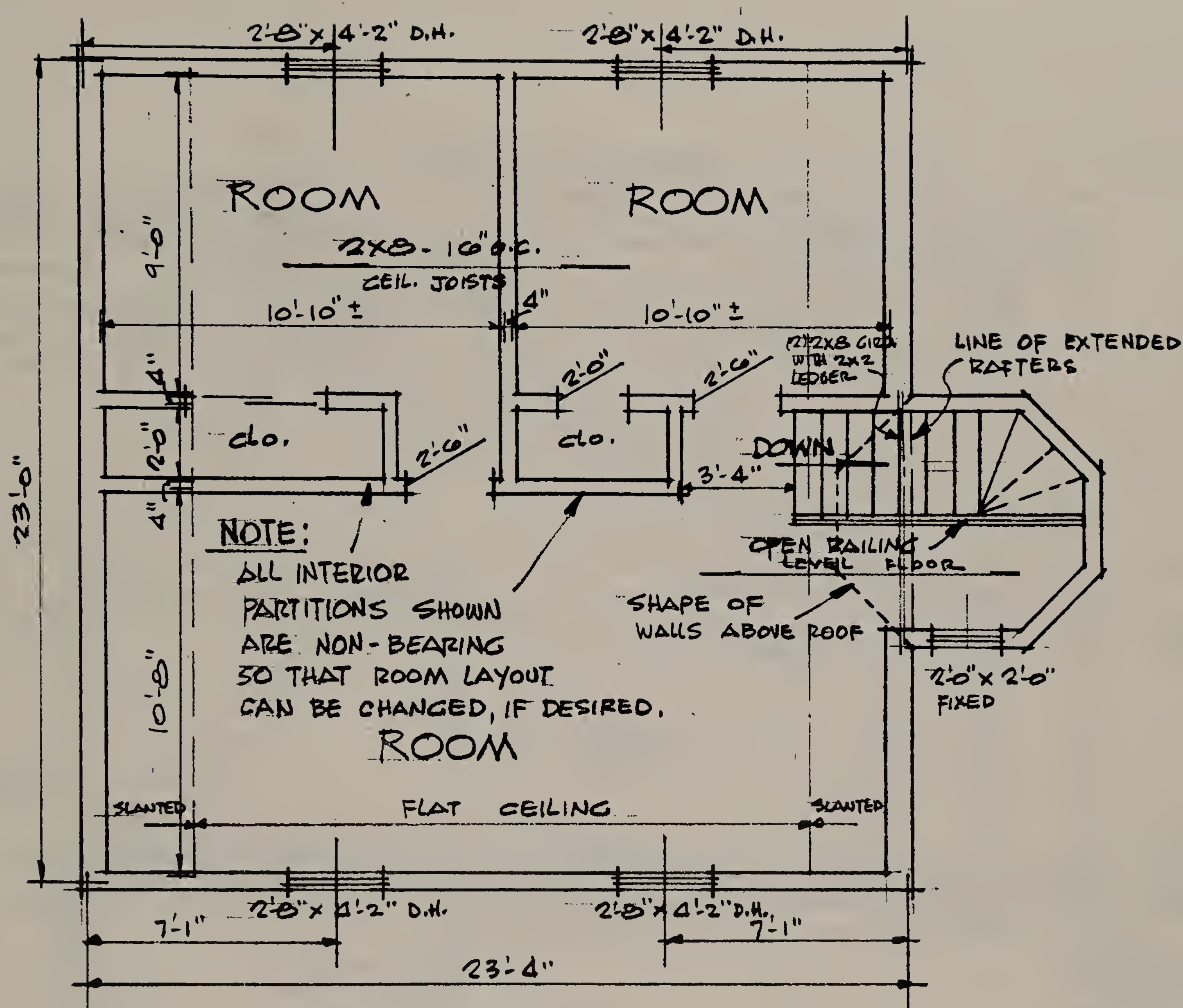


**L**ofty garage: The two-car garage grows in prestige with the addition of a loft that can be a studio or made into an apartment. Silo houses stairs that lead to the loft and gives the structure a farm look. The loft is dividable into four rooms, each with a window and suitable for an office. The garage-loft is 21 feet high, 24 feet, 4 inches wide and 23 feet deep. Exterior is painted with personal choice of colors.



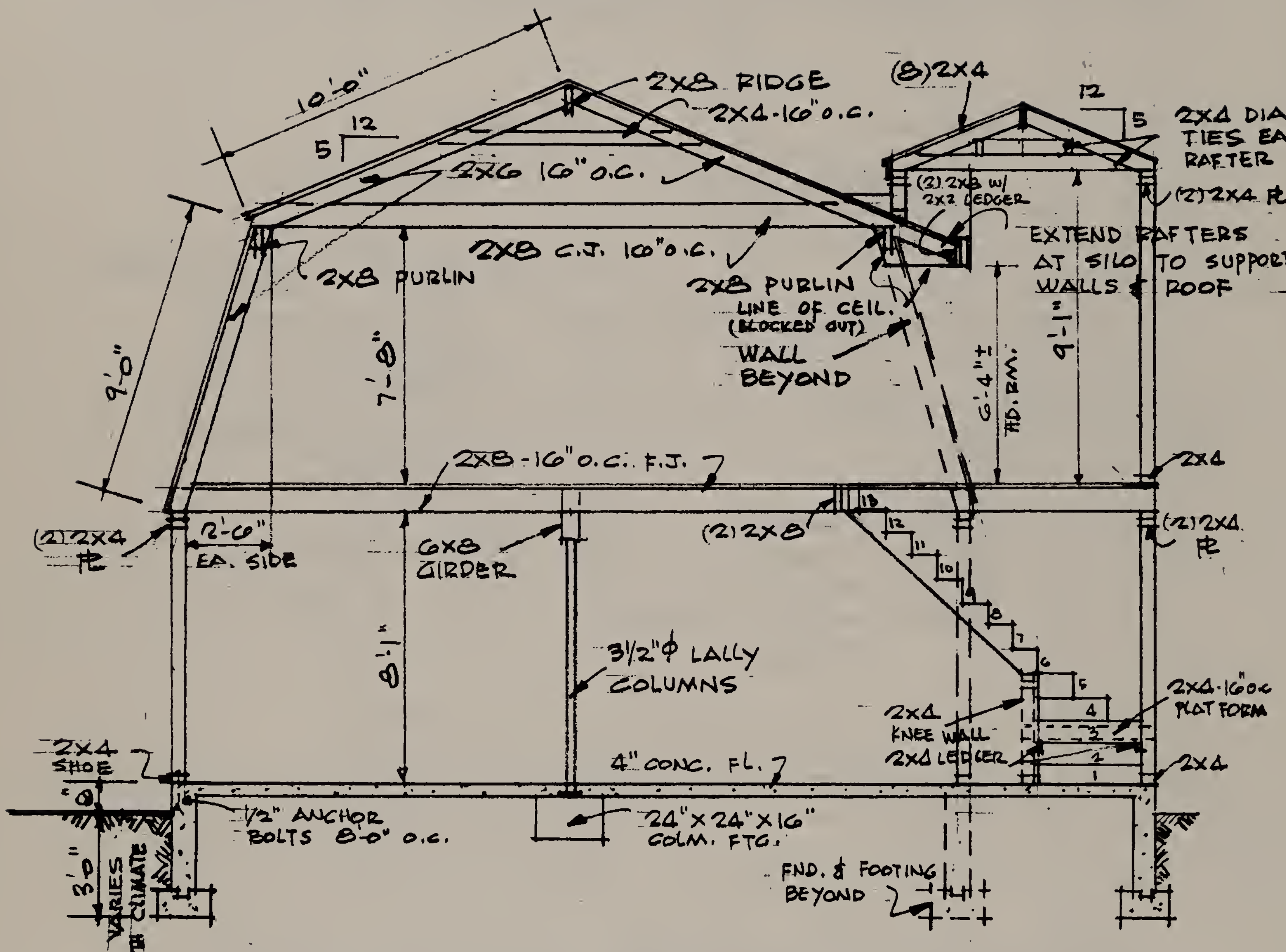

# FIRST FLOOR PLAN.

| FRAMING LUMBER LIST (' = FEET) | | | |
|---|---|---|---|
| location | size | amount | lin. ft. |
| STUDS | 2x4 | 134/8', 28/12', 15/9' | 1383' |
| PLATES & SILL | 2x4 | — | 422' |
| GARAGE RAFTERS | 2x6 | 36/10', 32/9' | 648' |
| SILO RFTS' & TIES | 2x4 | — | 64' |
| CEIL. JOISTS | 2x8 | 18/19' | 342' |
| FLOOR JOISTS | 2x8 | 36/12' | 432' |
| PURLIN | 2x8 | 2/23' | 46' |
| RIDGE | 2x8 | 1/29' INCL. BLOCK | 29' |

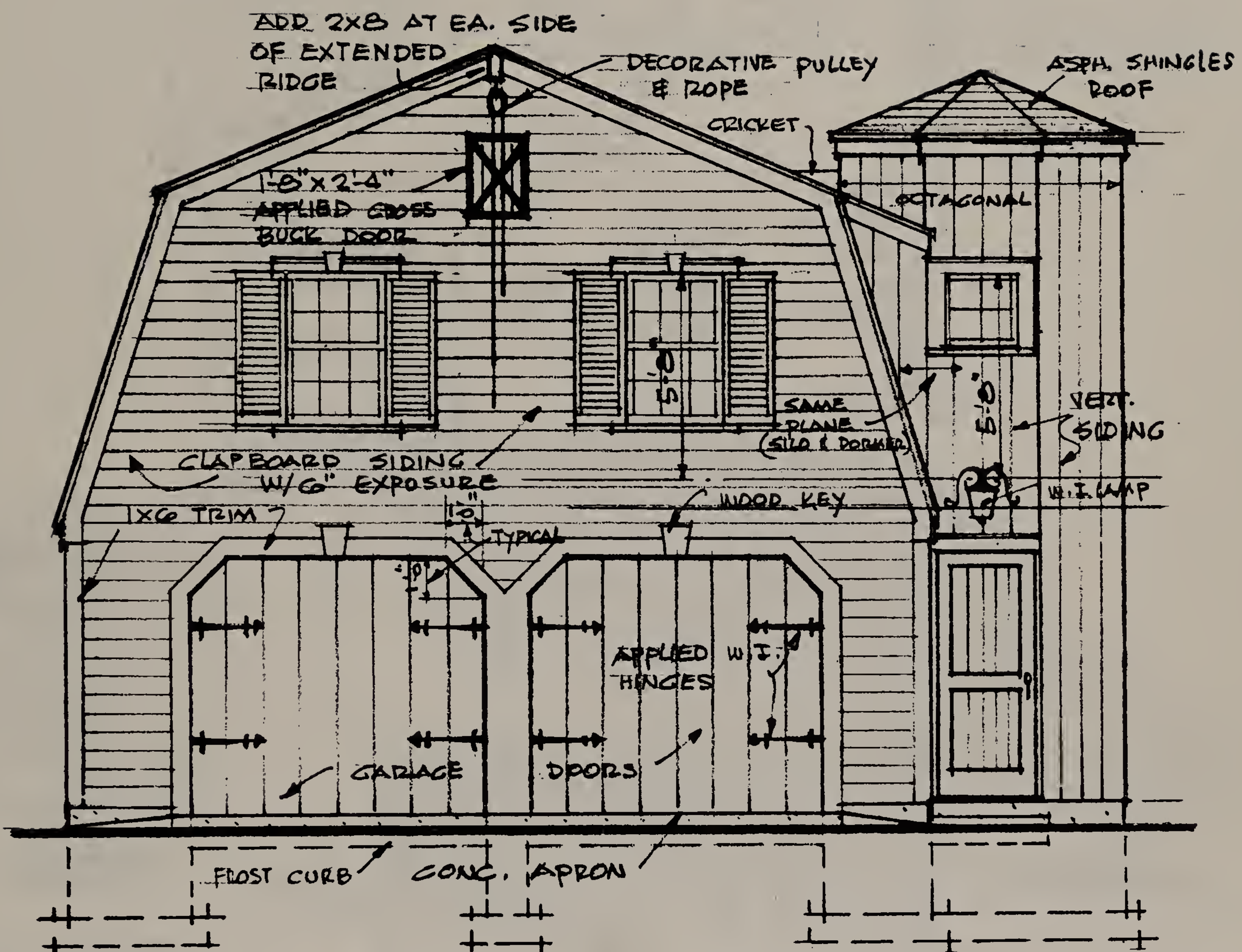



# LOFT FLOOR PLAN

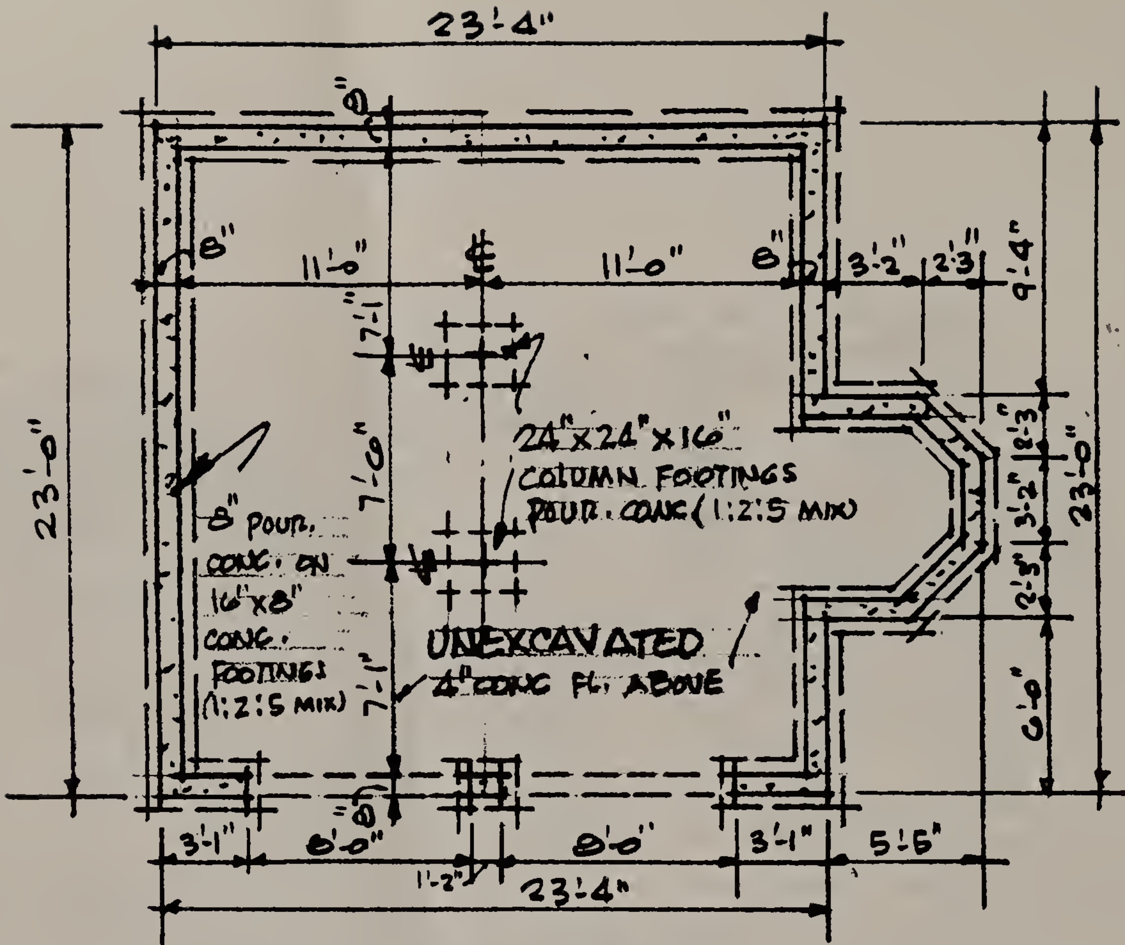
| | | | |
|---|---|---|---|
| COLLAR BMS. | 2X4 | 18/8' | 144' |
| GIRDER | 6x8 | 1/23' | 23' |
| DOOR HEADER | 4x8 | 4/9' | 36' |
| SHEATHING LOFT SUB. FL.<br>SIDE WALLS<br>ROOF | | 5/8" PLYWOOD<br>3/8" "<br>1/2" " | 514 SQ. FT.<br>832 " "<br>938 " " |



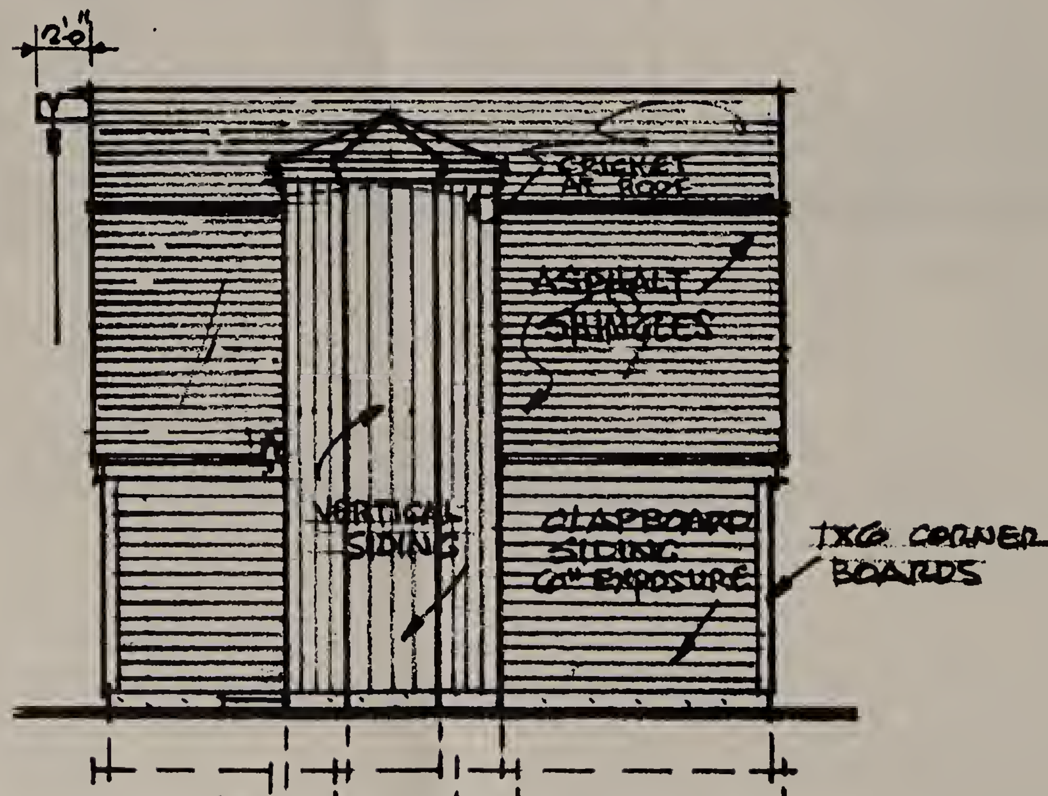

· CONSTRUCTION SECTION ·


ADD 2X8 AT EA. SIDE
OF EXTENDED
RIDGE
DECORATIVE PULLEY
& ROPE
ASPH. SHINGLES
ROOF
CRICKET
1'-8"x2'-4"
APPLIED CROSS
BUCK DOOR
OCTAGONAL
5'-0"
SAME
PLANE
(SILO & DORMER)
VERT.
SIDING
CLAPBOARD SIDING
W/6" EXPOSURE
W.I. LAMP
WOOD KEY
1X6 TRIM
1'-0"
TYPICAL
APPLIED W.I.
HINGES
GARAGE
DOORS
FROST CURB
CONC. APRON

FRONT




·FOUNDATION PLAN·




·RIGHT SIDE ELEVATION·

# 20.

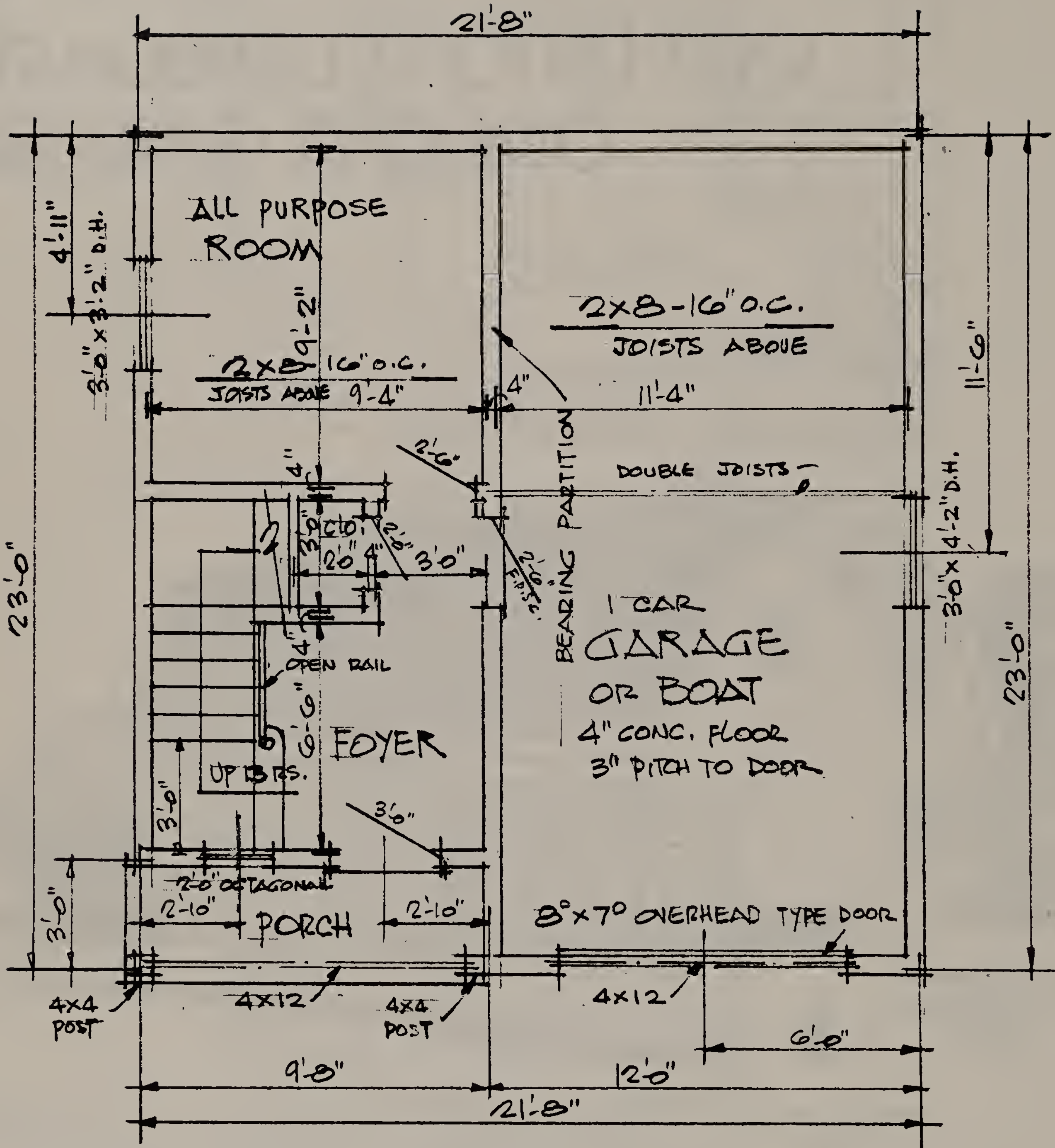
# OLD DUTCH CLAPBOARD ONE-CAR GARAGE

## With a two-story expansion apartment

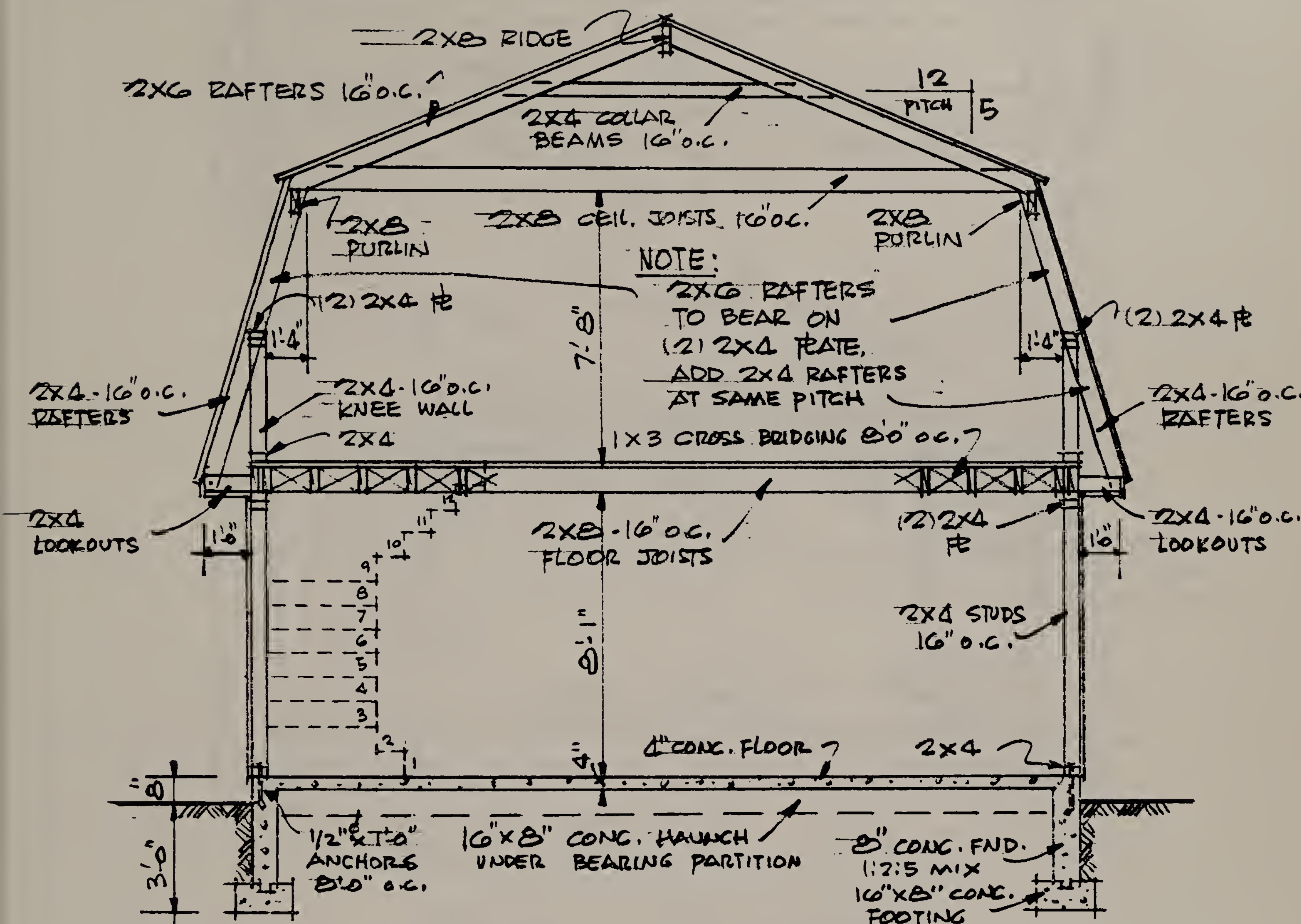


If your year-round or vacation home lacks a garage, this one-car plan provides parking space plus a loft that has possibilities. You can use it for storage or utilize it as a hobby area, recreation room or guest quarters. If zoning permits, you might convert it into a three-room apartment for elderly in-laws, young-marrieds, or for rental income that can help pay off your home improvement loan.

Garage is 21 feet, 8 inches wide; 23 feet deep; 21 feet, 6 inches high.


21'-8"
ALL PURPOSE ROOM
2x8-16" o.c. JOISTS ABOVE
9'-4"
9'-2"
4'-11"
3'-0" x 3'-2" D.H.
2x8-16" o.c.
JOISTS ABOVE
4"
11'-4"
11'-6"
BEARING PARTITION
DOUBLE JOISTS
2'-6"
3'-0"
2'-0"
3'-0" x 4'-2" D.H.
23'-0"
1 CAR
GARAGE
OR BOAT
4" CONC. FLOOR
3" PITCH TO DOOR
OPEN RAIL
FOYER
UP 13 RS.
3'-6"
3'-0"
2'-0" OCTAGONAL
2'-10"
PORCH
2'-10"
8'0 x 7'0 OVERHEAD TYPE DOOR
4x4 POST
4x12
4x4 POST
4x12
6'-0"
9'-8"
12'-0"
21'-8"

FLOOR PLAN




# CROSS SECTION

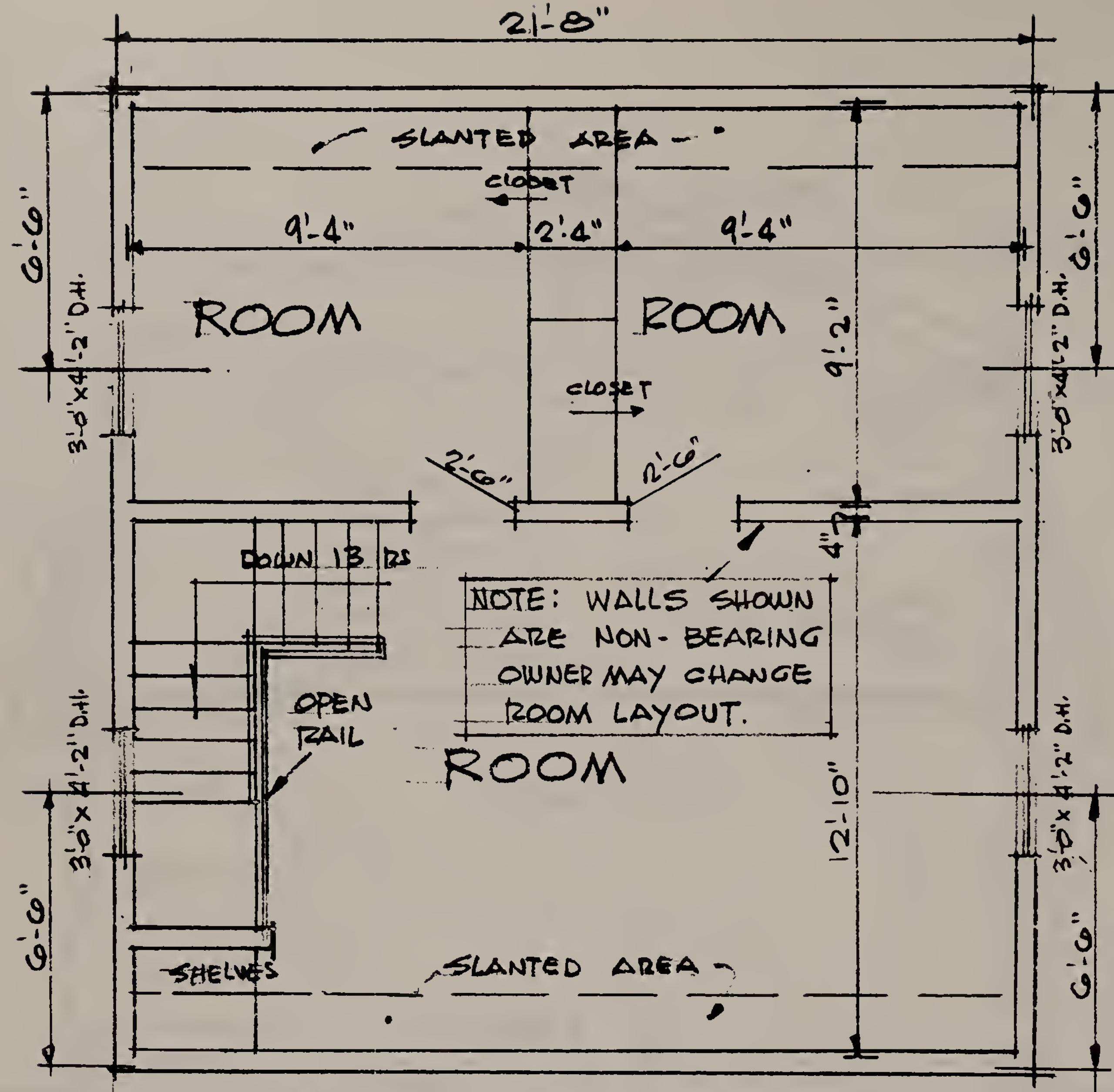
## FRAMING LUMBER LIST

| LOCATION | SIZE | AMOUNT | LIN. FT. |
|---|---|---|---|
| STUDS | 2X4 | 177/8' 52/4' | 1624 |
| PLATES & SILL | 2X4 | — | 585 |
| RAFTERS | 2X6 | 36/12' 36/4' | 676 |
| CEIL. JOISTS | 2X8 | 18/21 | 378 |
| FL. JOISTS | 2X8 | 18/12' 18/10' | 396 |
| PURLIN | 2X8 | 2/23' | 46 |

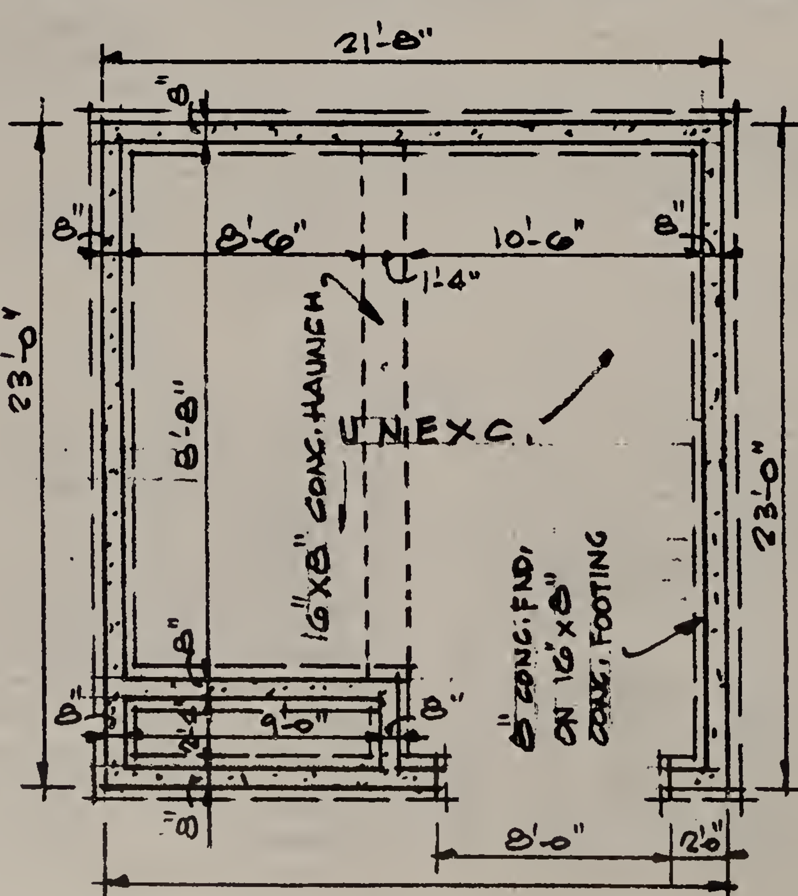
| | | | |
|---|---|---|---|
| RIDGE | 2X8 | 1/25' | 25 |
| COLLAR BEAMS | 2X4 | 18/9' | 162 |
| HEADERS | 4X12 | 2/9' | 18 |
| RAFTERS | 2X4 | 36/5' | 180 |
| LOOKOUTS | 2X4 | 36/1' | 36 |

**SHEATHING & FINISHING**

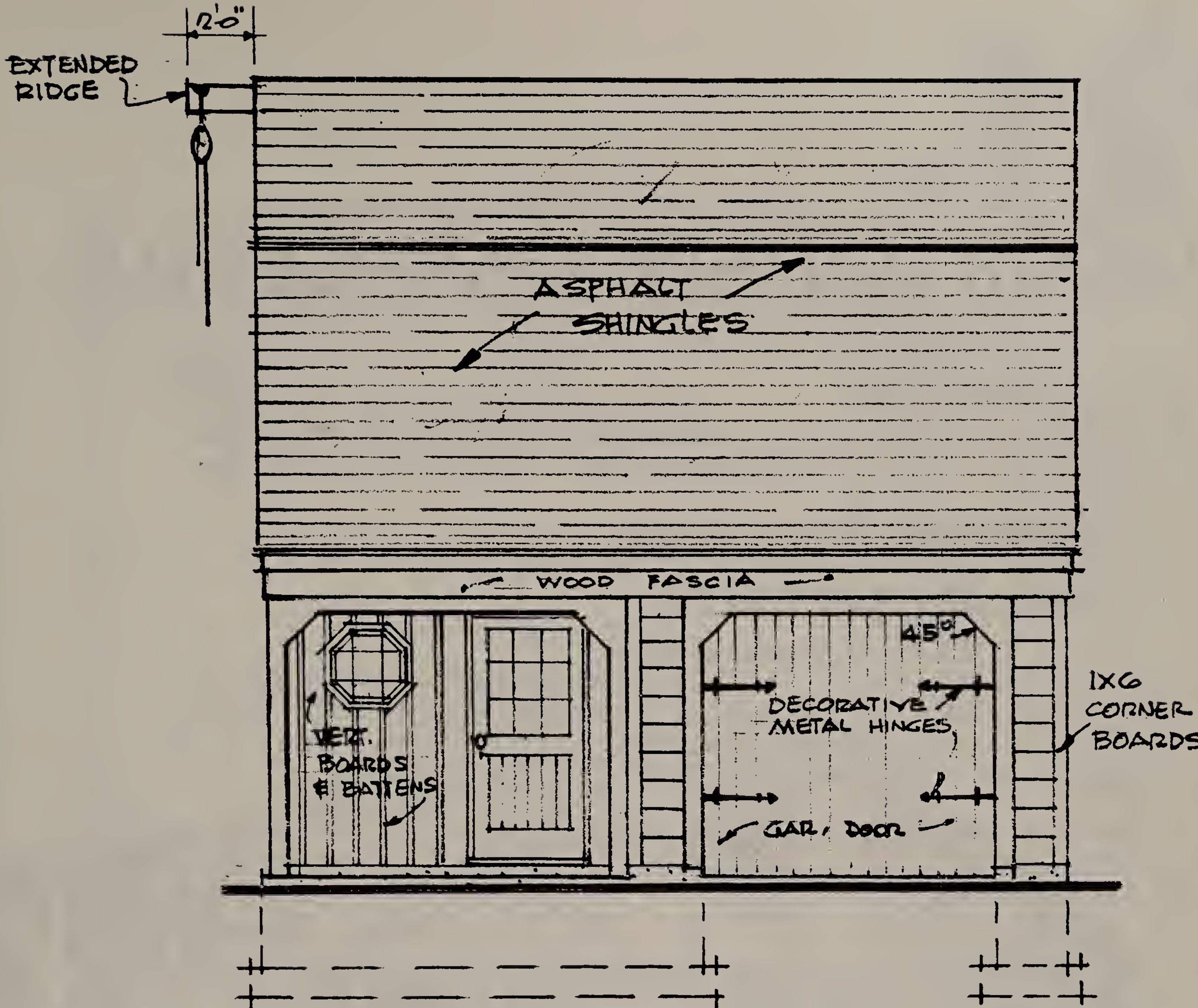
LOFT SUB FLOOR, 5/8" PLYWOOD = 500 □'
SIDE WALLS, 3/8" PLYWOOD = 1028 □'
ROOF, 1/2" PLYWOOD = 948 □'



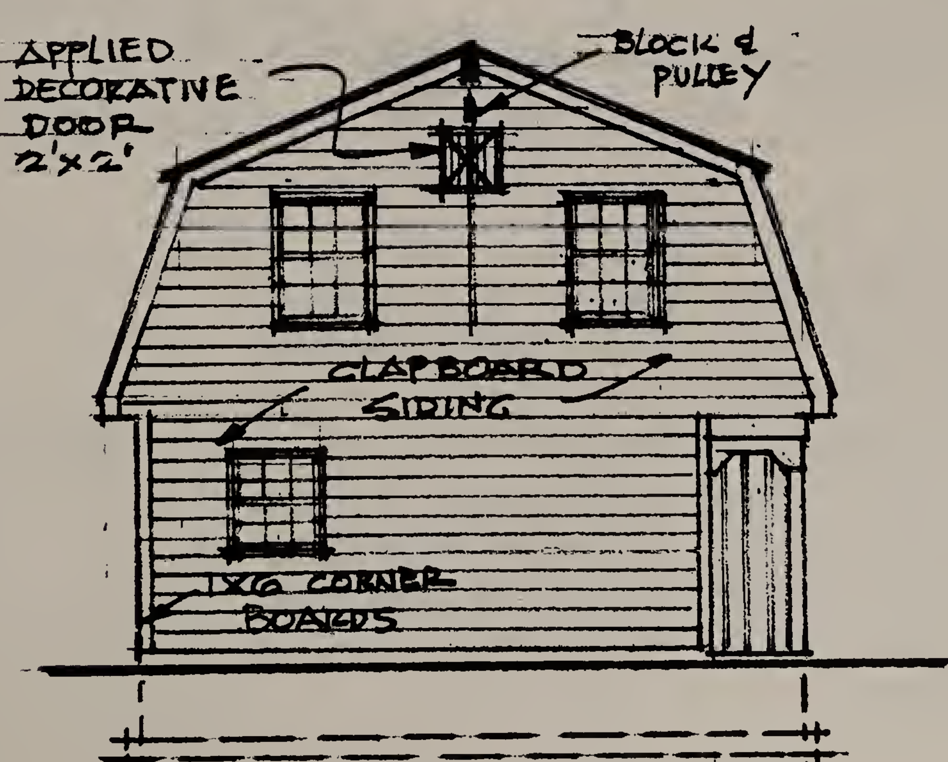

·LOFT FLOOR PLAN·




·FOUNDATION PLAN·




FRONT ELEVATION.

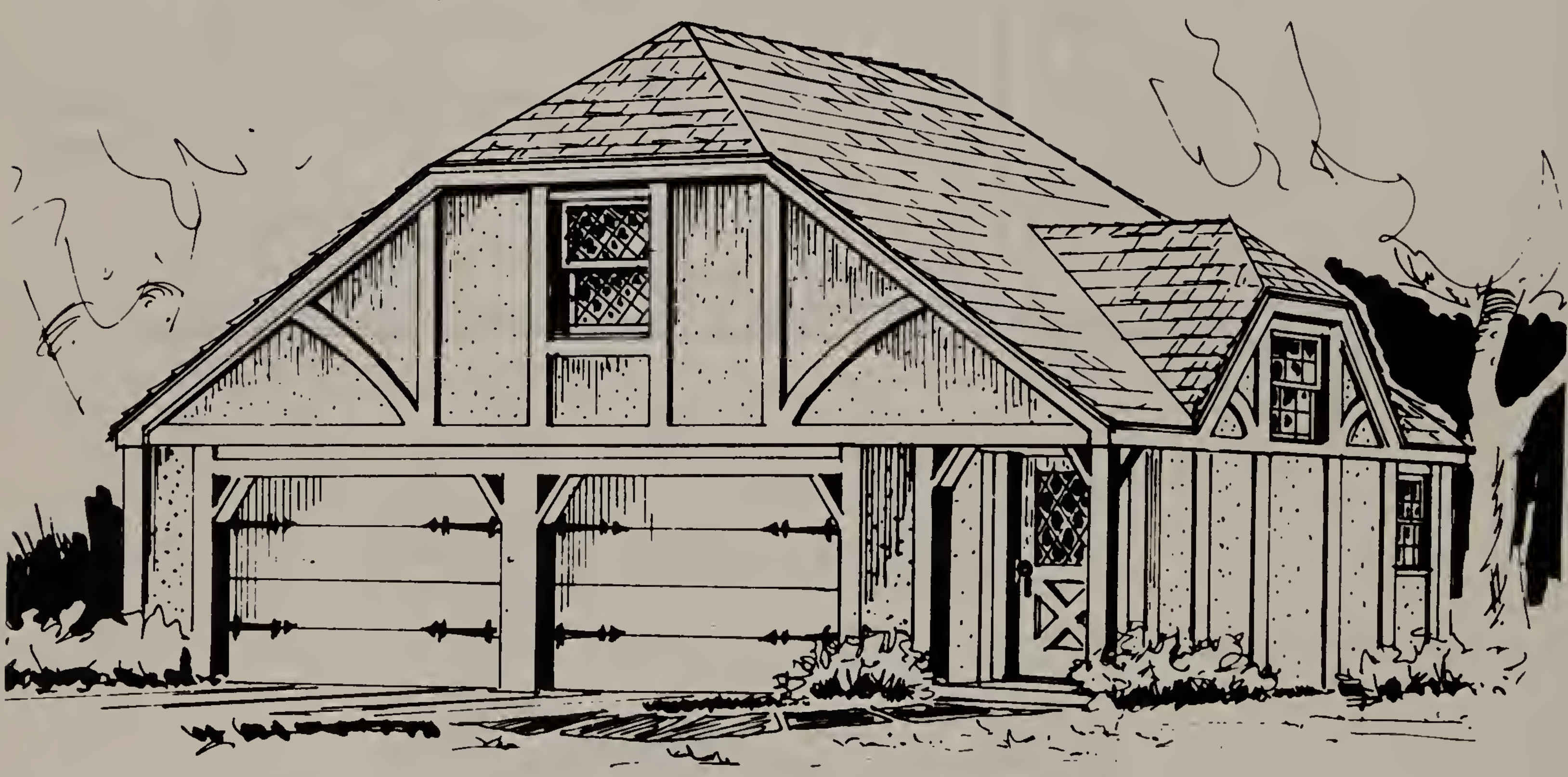



SIDE ELEVATION.

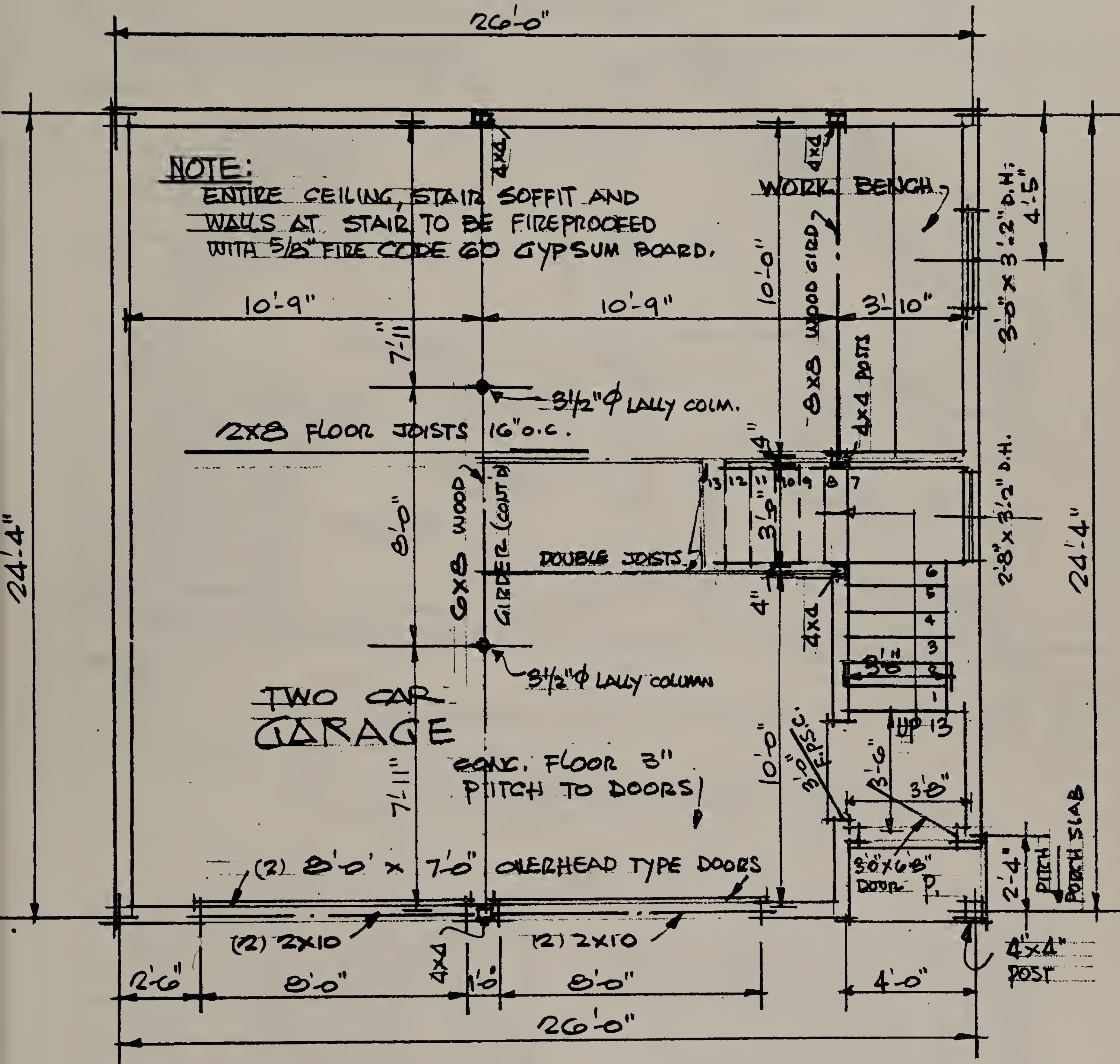
# 21.

# TUDOR COTTAGE GARAGE PLUS

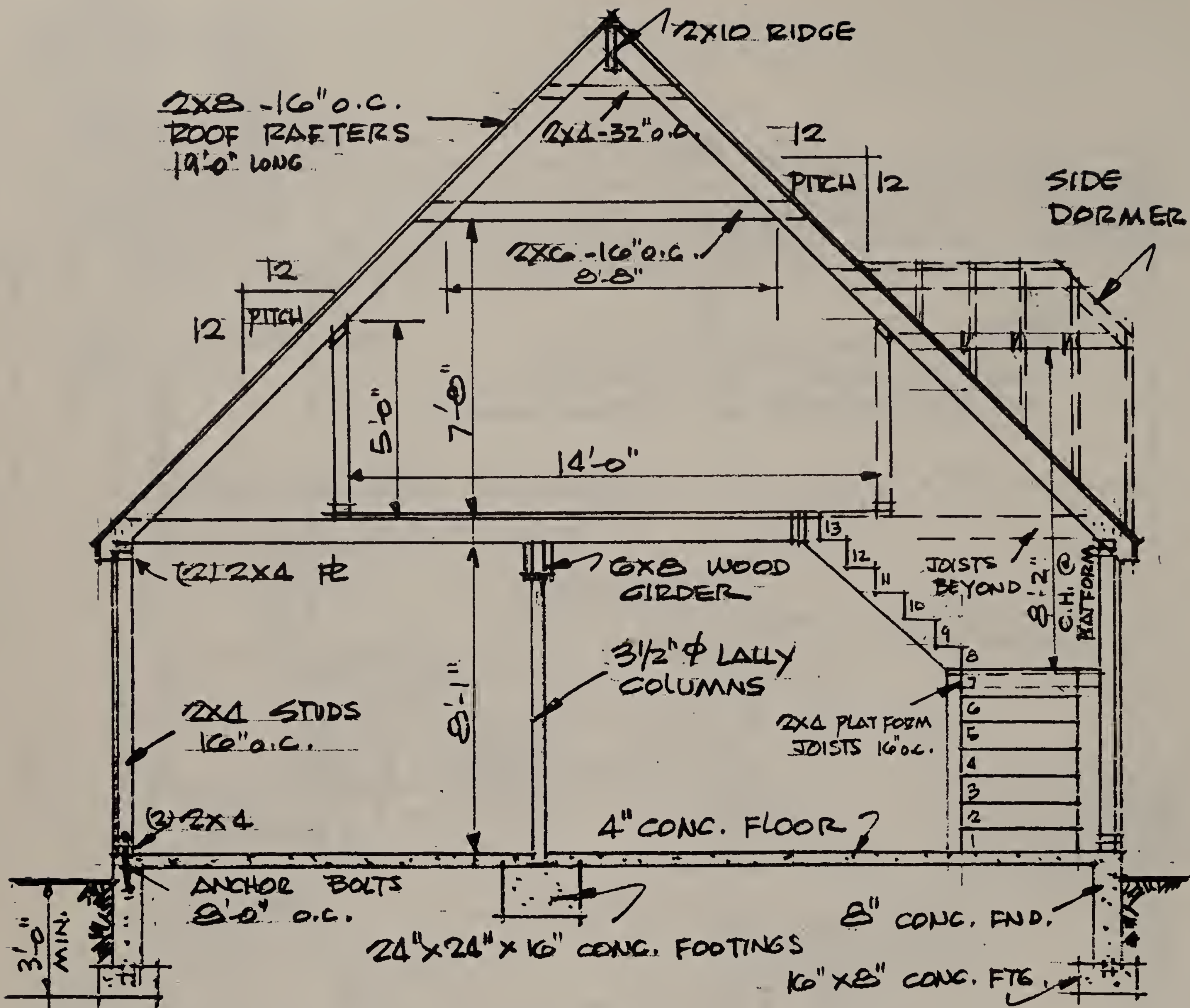
## Attic can be turned into an apartment



This plan provides a great deal more than a two-car garage because the expansion attic can be finished off to provide an efficiency apartment or, if you prefer, two (10 feet by 14 feet) rooms that can be utitlized for office, hobby or play space. Outside door leading to attic has entry foyer that includes access door to the garage. As shown, this chalet-style garage is 26 feet wide; 24 feet, 4 inches deep; 22 feet, 6 inches high.


26'-0"
NOTE:
ENTIRE CEILING, STAIR SOFFIT AND
WALLS AT STAIR TO BE FIREPROOFED
WITH 5/8" FIRE CODE GO GYPSUM BOARD.
WORK BENCH
4x4
3'-0" x 3'-2" D.H.
4'-5"
10'-9"
10'-9"
3'-10"
10'-0"
8x8 WOOD GIRD.
4x4 POSTS
7'-11"
3½"φ LALLY COLM.
2x8 FLOOR JOISTS 16" o.c.
6x8 WOOD GIRDER (CONT'D)
8'-0"
DOUBLE JOISTS
3'-9"
4"
2'-8" x 3'-2" D.H.
24'-4"
3½"φ LALLY COLUMN
3'-8"
TWO CAR
GARAGE
CONC. FLOOR 3"
PITCH TO DOORS
7'-11"
10'-0"
3'-0" F.P.S.C.
3'-6"
3'-8"
UP 13
(2) 8'-0' x 7'-0" OVERHEAD TYPE DOORS
3'0"x6'8" DOOR
PORCH SLAB
PITCH
2'-4"
(2) 2x10
(2) 2x10
4x4
4"x4" POST
2'-6"
8'-0"
1'-0"
8'-0"
4'-0"
26'-0"

# • FLOOR PLAN •

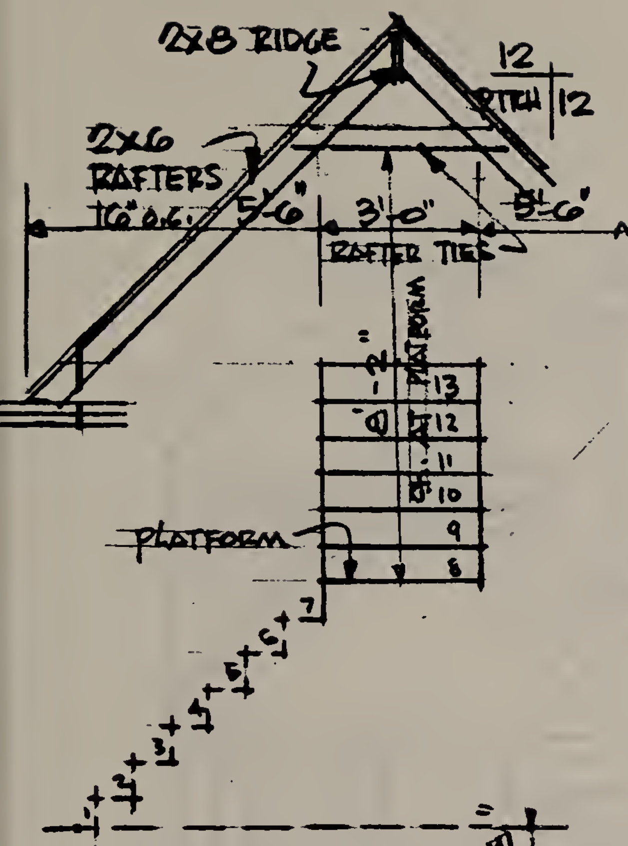



# · CROSS SECTION ·

| FRAMING LUMBER LIST | | | |
|---|---|---|---|
| LOCATION | SIZE | AMOUNT | LIN. FT. |
| STUDS | 2X4 | 110/8', 37/5' | 1065 |
| PLATE & SILL | 2X4 | — | 452 |
| RAFTERS | 2X8 | 40/19' | 760 |
| CEIL. TIES | 2X6 | 19/10' | 190 |
| FLOOR JOISTS | 2X8 | 19/22' 9/5' | 463 |
| RIDGE | 2X10 | 1/25' | 25 |
| COLLAR BMS. | 2X4 | 6/4' | 24 |
| GIRDER | 6X10 | 1/25' & 1/11' (8X10) | 25 & 11 |
| DOOR HDR. | 4X10 | 1/18 | 18 |

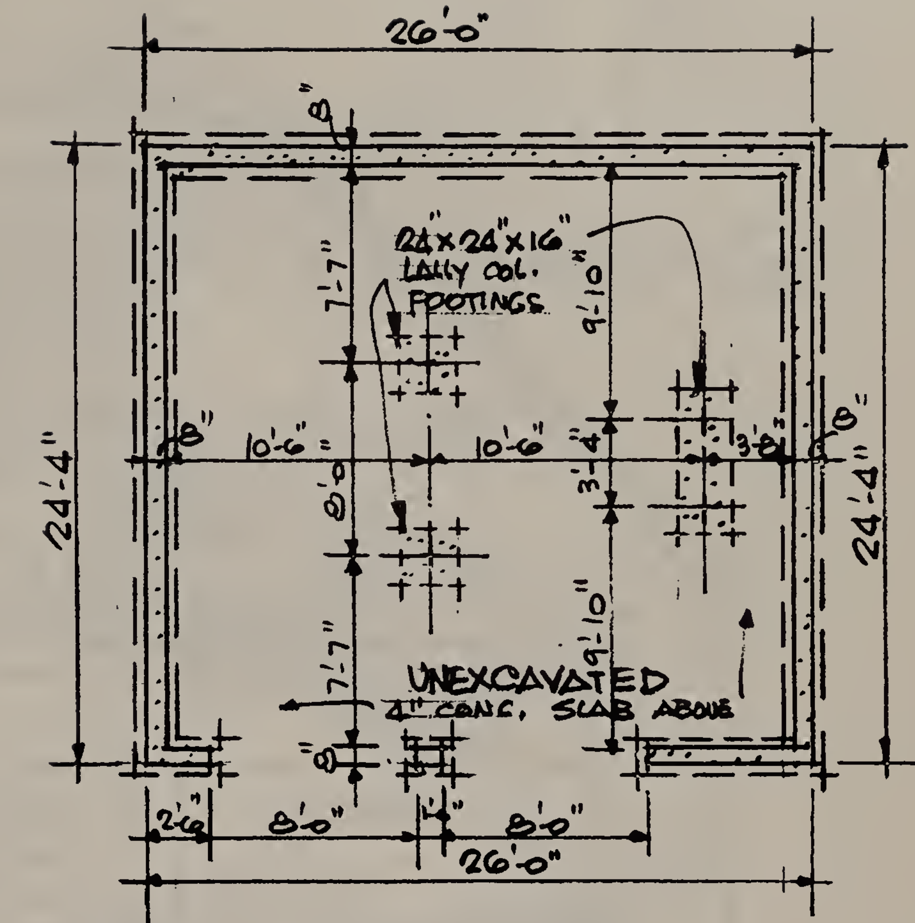
| | | | |
|---|---|---|---|
| DORMER: | | | |
| RAFTERS | 2X6 | — | 60' |
| COLLAR TIES | 2X4 | 5/4' | 20 |
| RIDGE | 2X8 | 1/6' | 6 |
| POSTS | 4X4 | 5/8' | 40 |
| VALLEY RAFTERS | 4X10 | 2/24 2/12 | 72 |
| SUB-FLOOR | 3/4" PLY. | 364 SQ. FT | — (ATTIC) |
| WALL SHEATHING | 1/2" PLY. | 972 SQ. FT | — |
| ROOF SHEATHING | 1/2" PLY. | 950 SQ. FT | — |

AMOUNTS SHOWN CAN ALSO BE USED TO COMPUTE FINISHING MATERIALS REQUIRED

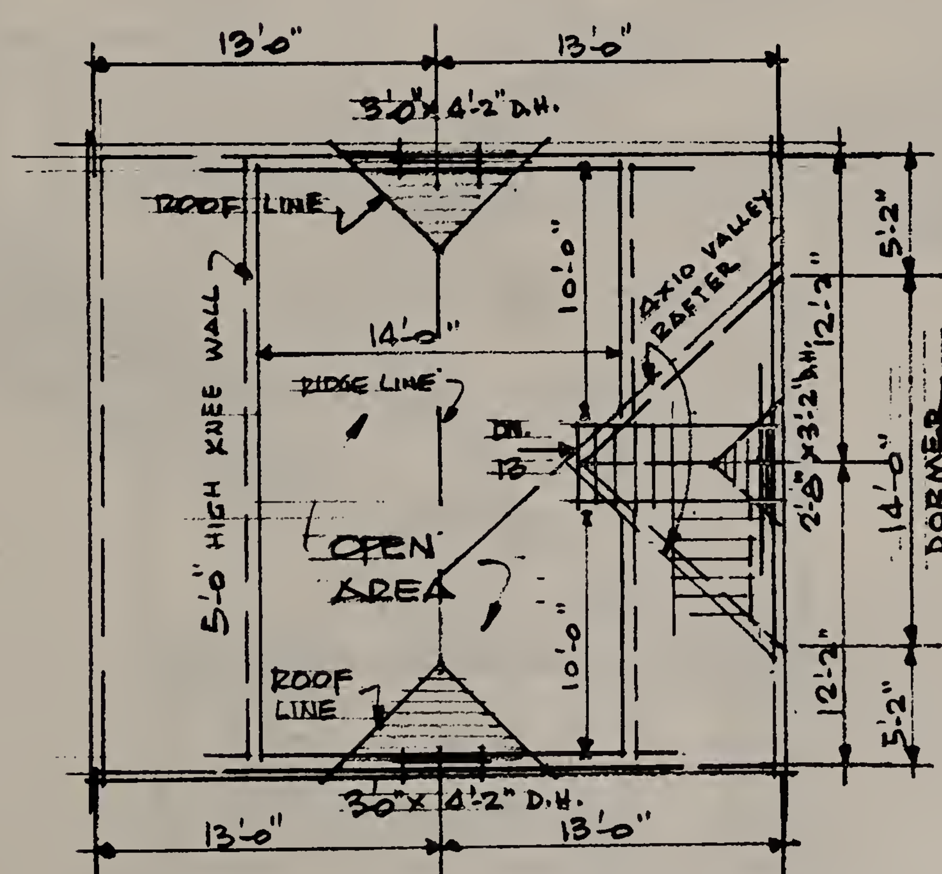



SECTION
AT SIDE
DORMER

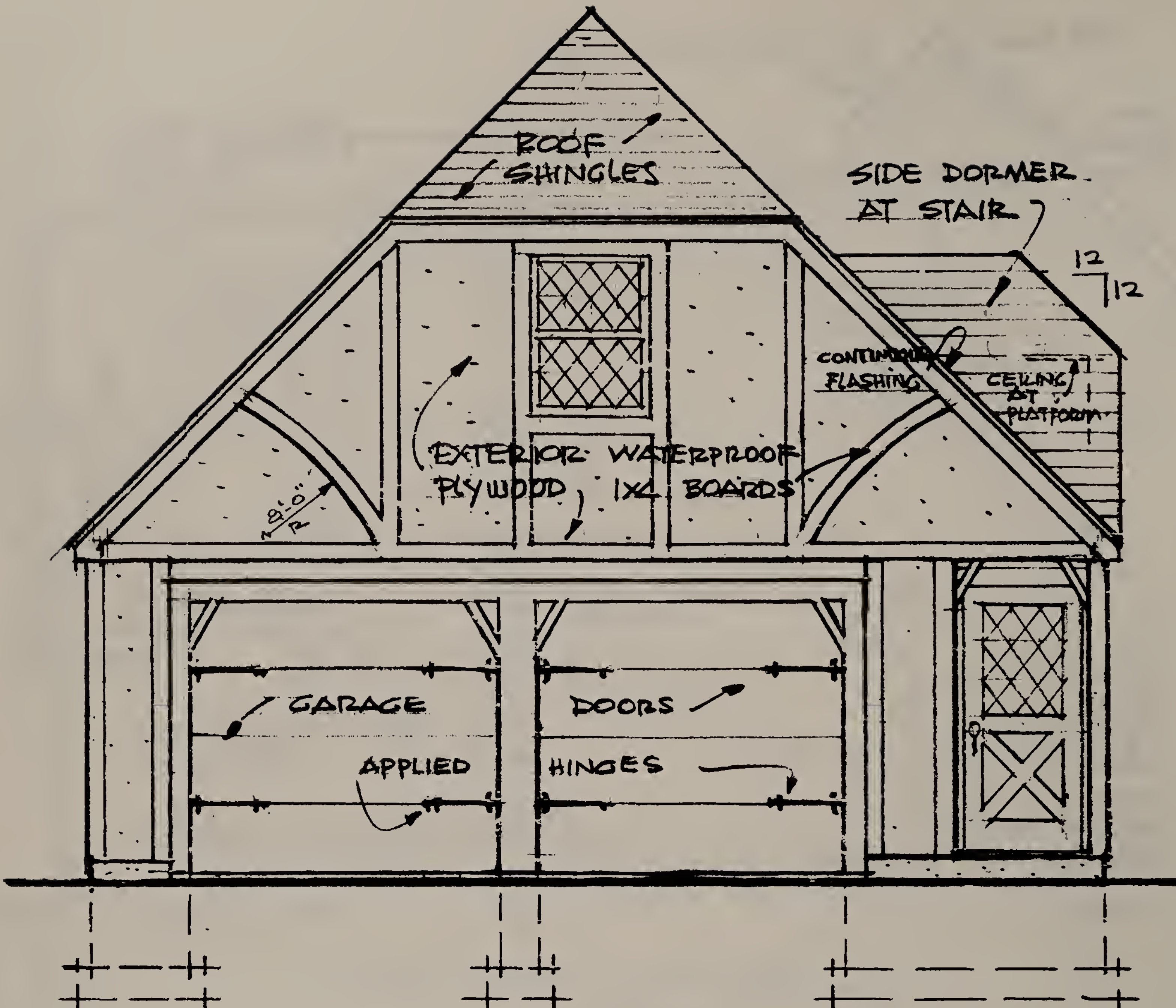
(FROST LINE
VARIES WITH
GEOGRAPHICAL LOCATION)



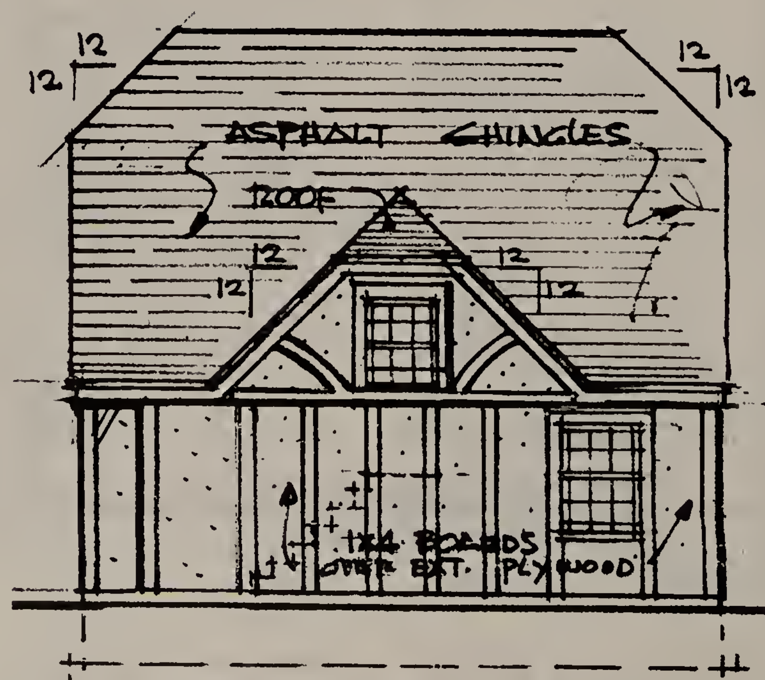

· FOUNDATION PLAN ·




· EXPANSION ATTIC PLAN ·




· FRONT ELEVATION ·

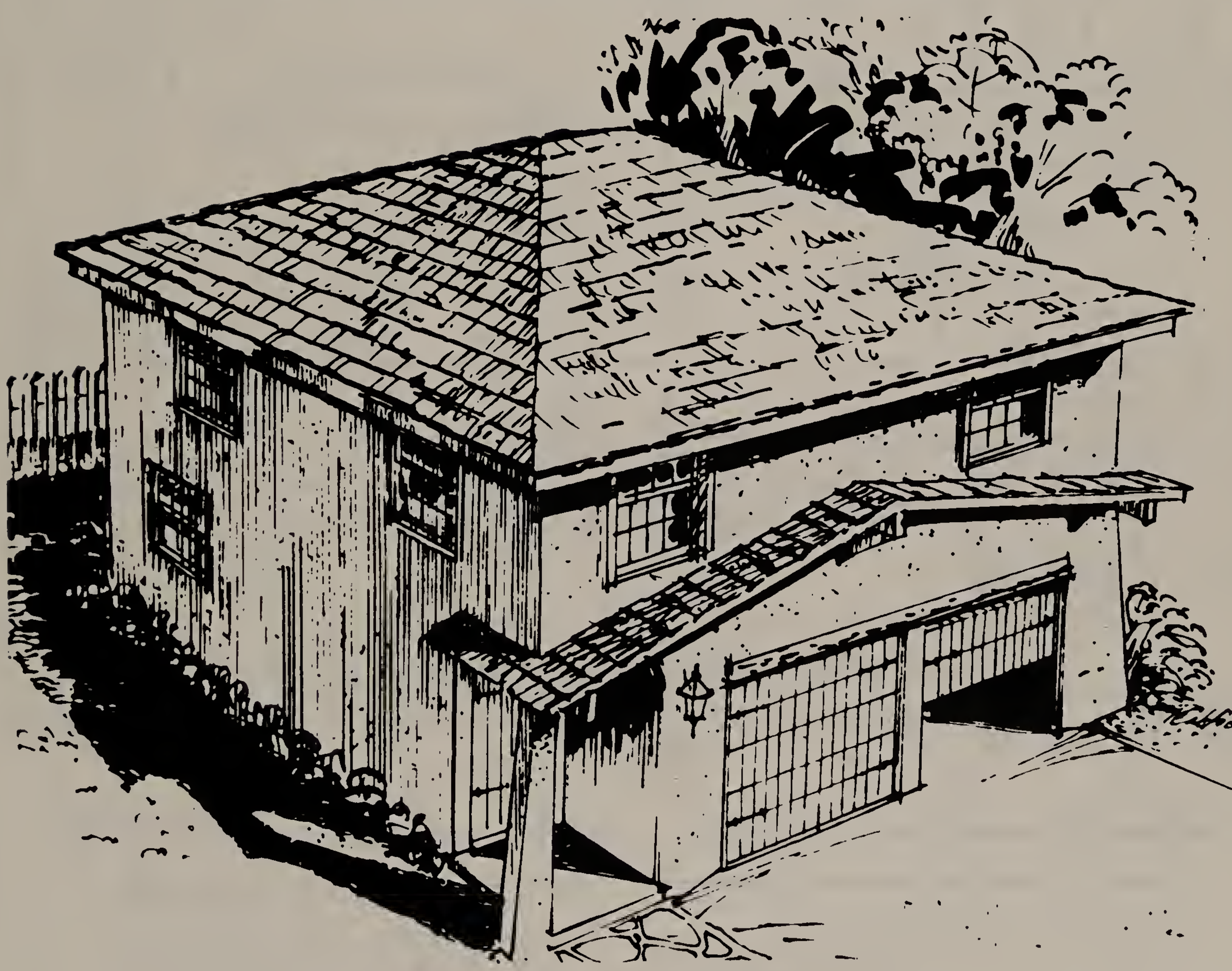



· SIDE ELEVATION ·

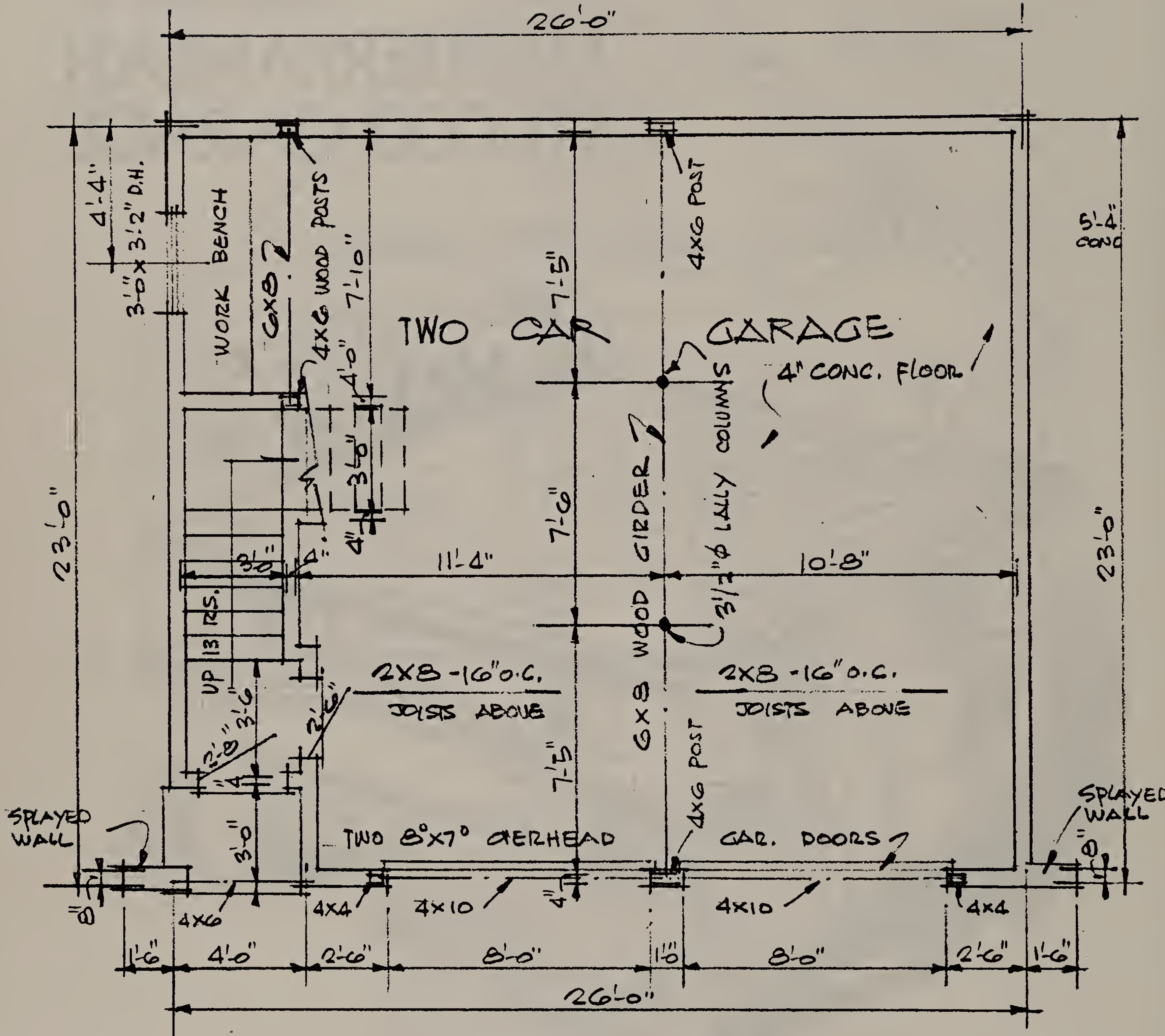
# 22.

# MEDITERRANEAN STUCCO GARAGE

## 600 sq. ft. apartment upstairs

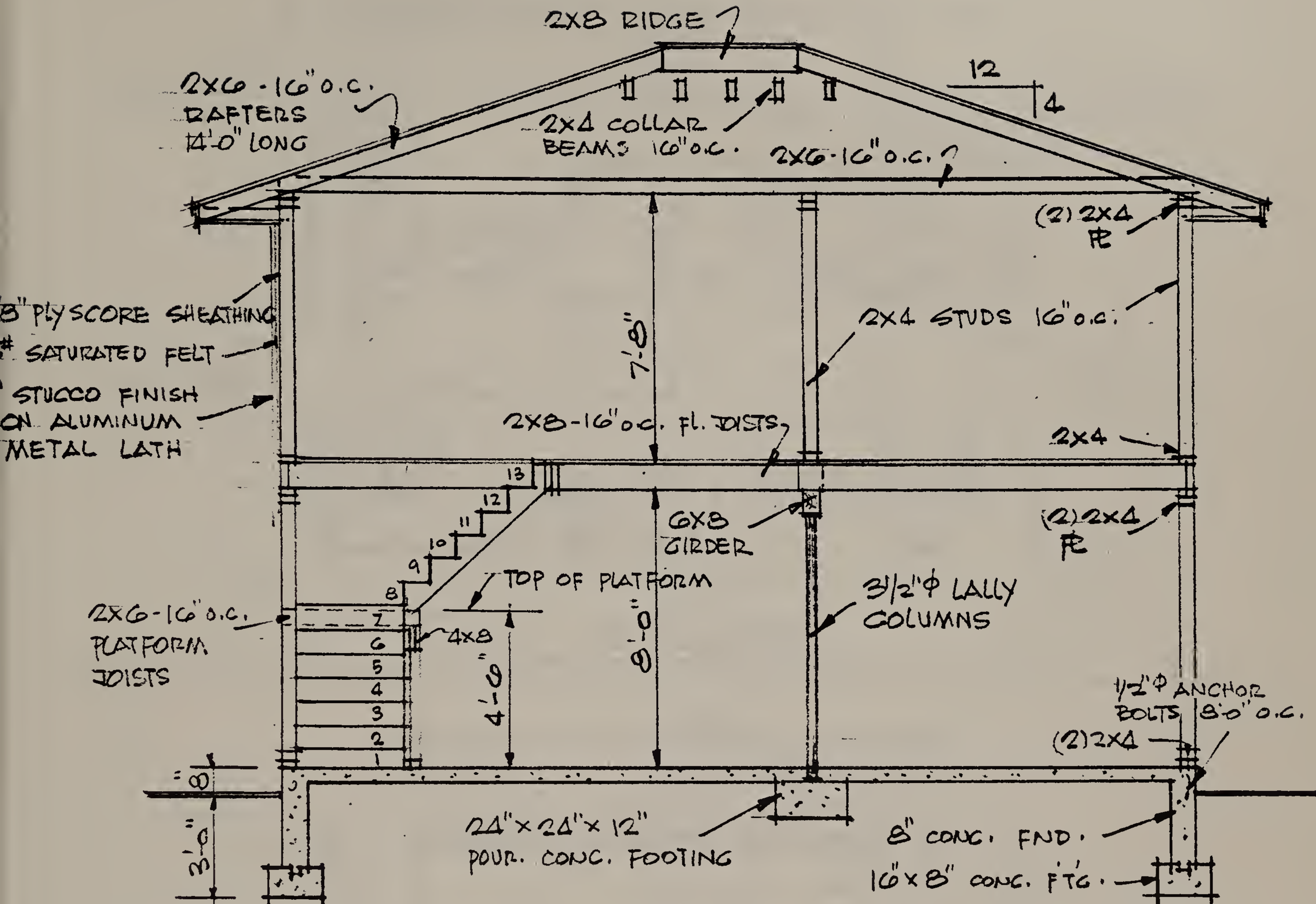


This two-car garage has a bonus of space that can be converted into an apartment or an office for a professional. Upper floor is large enough for kitchen, bath, living room, two bedrooms. Garage area includes an alcove for workbench. Entry (left) has access to apartment and garage. Garage is 26 feet wide; 23 feet deep, 21 feet high.



26'-0"
TWO CAR GARAGE
WORK BENCH
6X8
4X6 WOOD POSTS
4X6 POST
4" CONC. FLOOR
3 1/2" Ø LALLY COLUMNS
6X8 WOOD GIRDER
UP 13 RS.
2X8 -16" O.C. JOISTS ABOVE
2X8 -16" O.C. JOISTS ABOVE
TWO 8'X7' OVERHEAD GAR. DOORS
SPLAYED WALL
SPLAYED WALL
4X6
4X4
4X10
4X10
4X4
11'-4"
10'-8"
23'-0"
23'-0"
5'-4" CONC
1'-6"
4'-0"
2'-6"
8'-0"
1'-0"
8'-0"
2'-6"
1'-6"
26'-0"

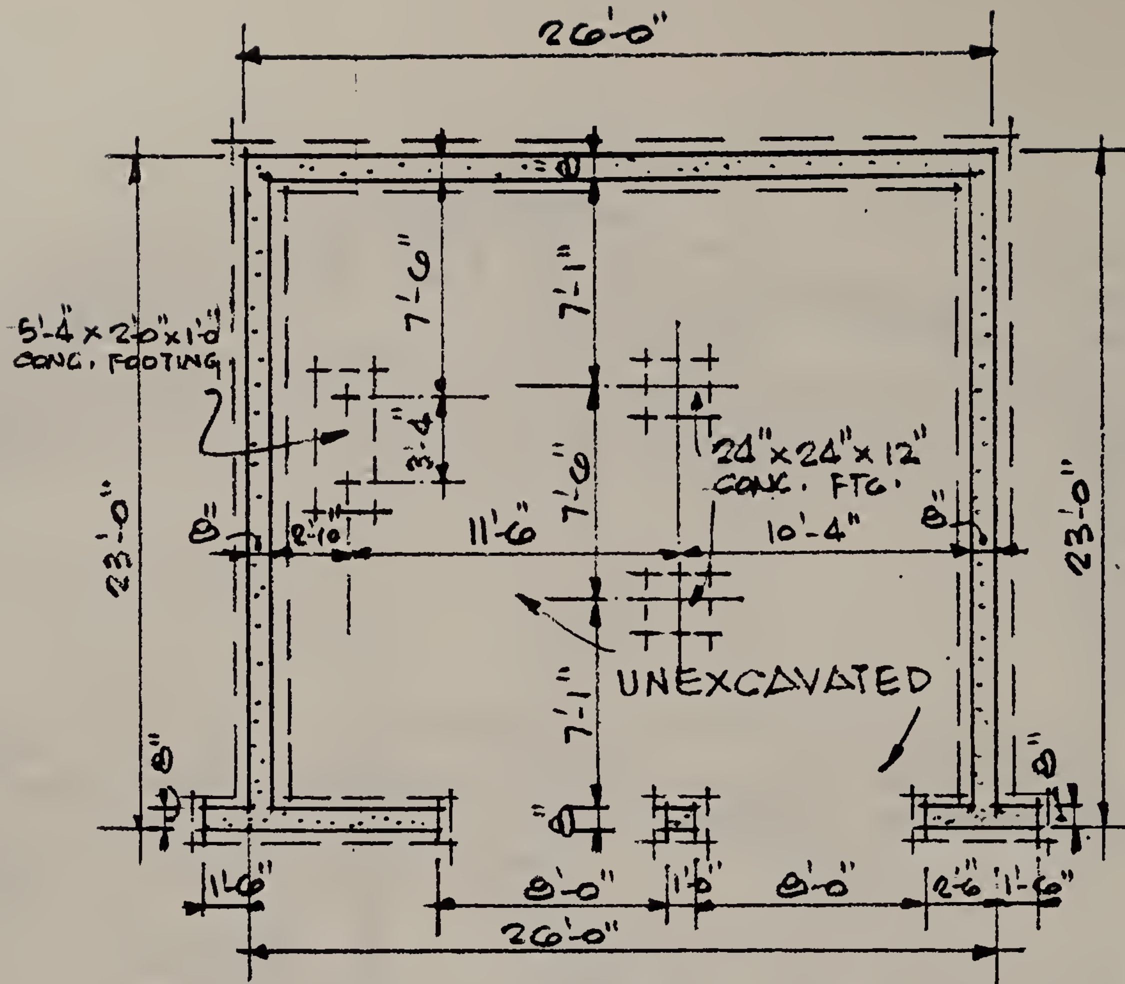

FLOOR PLAN.



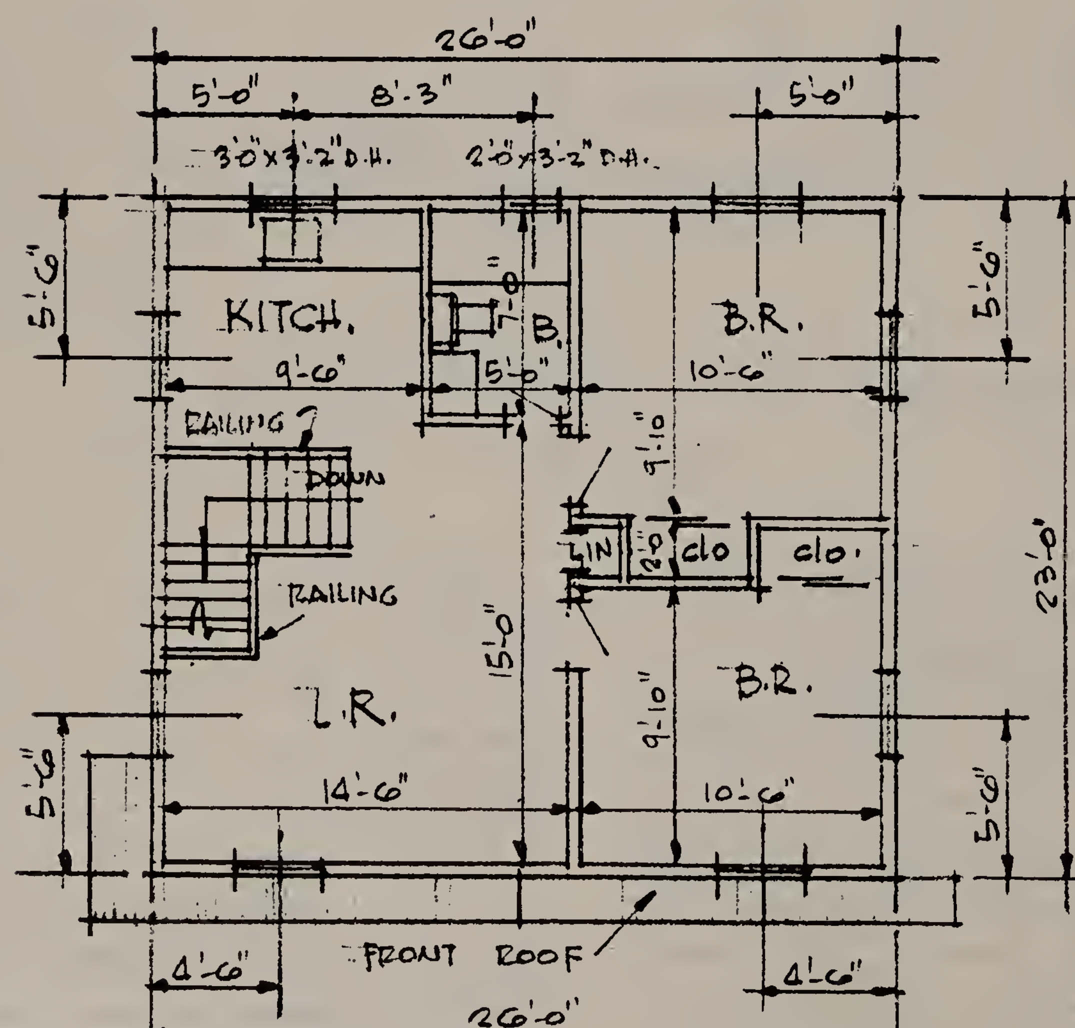

# CROSS SECTION

| FRAMING LUMBER LIST | | | |
|---|---|---|---|
| LOCATION | SIZE | AMOUNT | LIN. FT. |
| STUDS | 2x4 | 276/8' | 2208 |
| PLATES & SILL | 2x4 | — | 869 |
| RAFTERS | 2x6 | 36/14' 4/16' | 568 |
| CEILING JOISTS | 2x6 | 18/12' 18/16' | 504 |
| FL. JOISTS | 2x8 | 30/12' 7/16' | 472 |
| RIDGE | 2x8 | — | 5 |

| | | | |
|---|---|---|---|
| COLLAR BEAMS | 2x4 | 5/10' | 50 |
| GIRDER | 6x8 | 1/23' 1/9' | 32 |
| DOOR HEADER | 4x10 | 1/18' | 18 |
| WOOD POSTS | 4x4 | 4/8' | 32 |
| | 4x6 | 3/8' | 24 |
| SHEATHING: (′ = SQUARE FEET) | | | |
| 2ND FL. SUB-FLOOR 5/8" PLYWOOD 598′ | | | |
| SIDE WALLS 3/8" PLYWOOD 1288′ | | | |
| ROOF 1/2" PLYWOOD 736′ | | | |

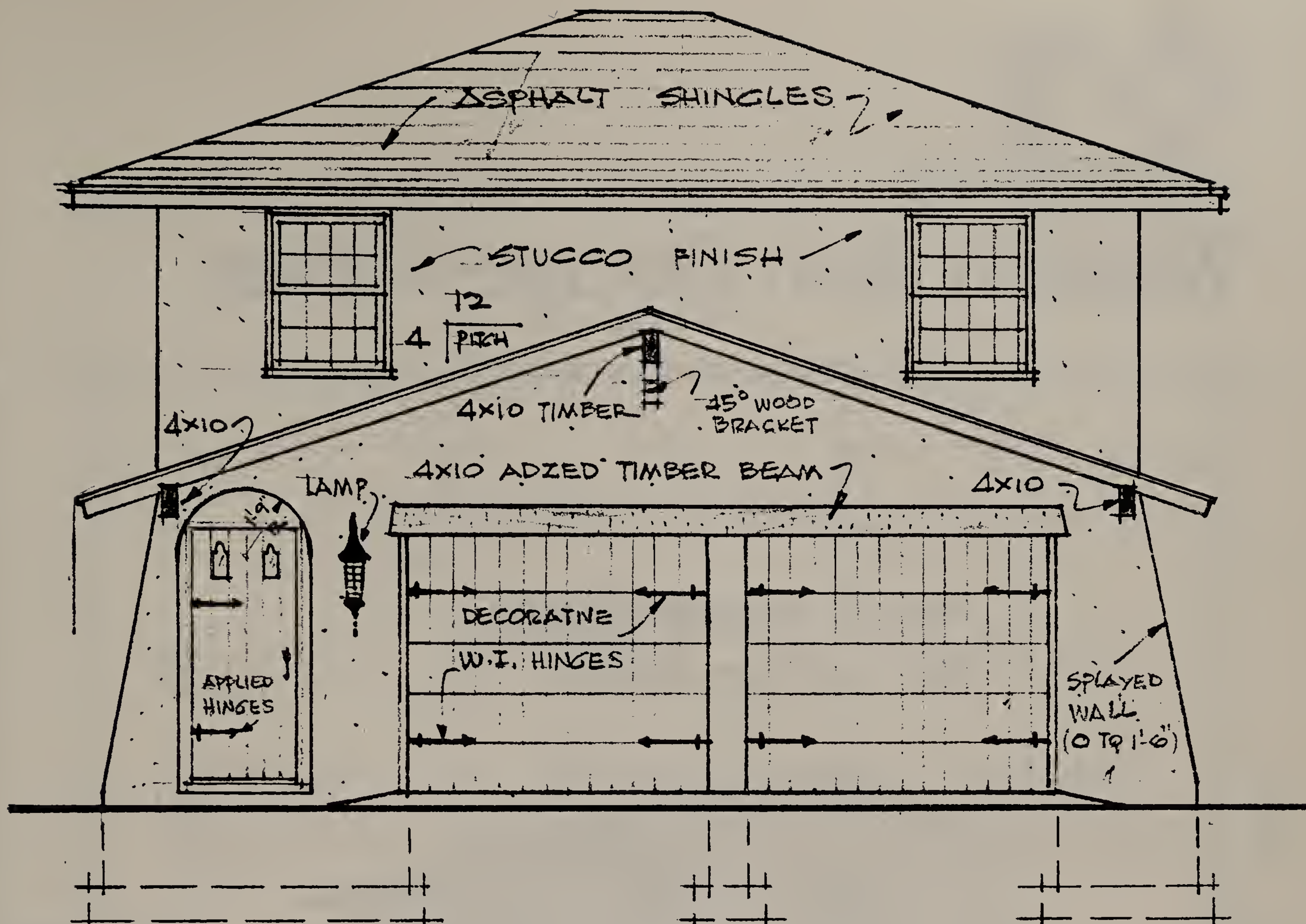



· FOUNDATION PLAN ·

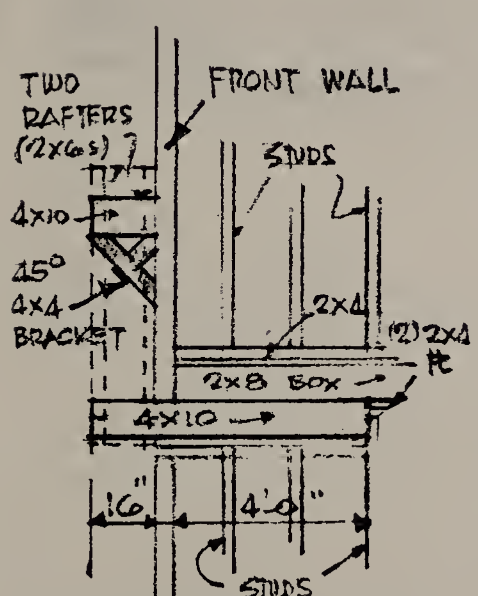



OPTIONAL
· SECOND FLOOR PLAN ·

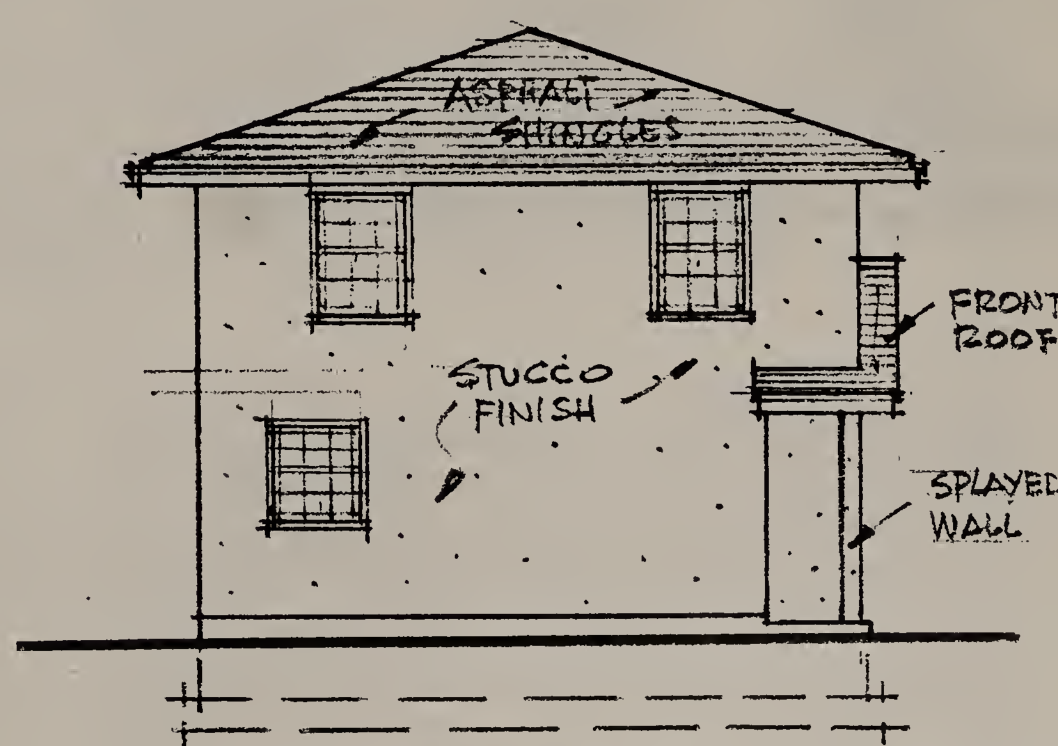
UNLESS OTHERWISE NOTED ALL SASH ARE 3'0" x 4'-2" D.H.




· FRONT ELEVATION ·




FRONT ROOF FRAMING




· SIDE ELEVATION ·

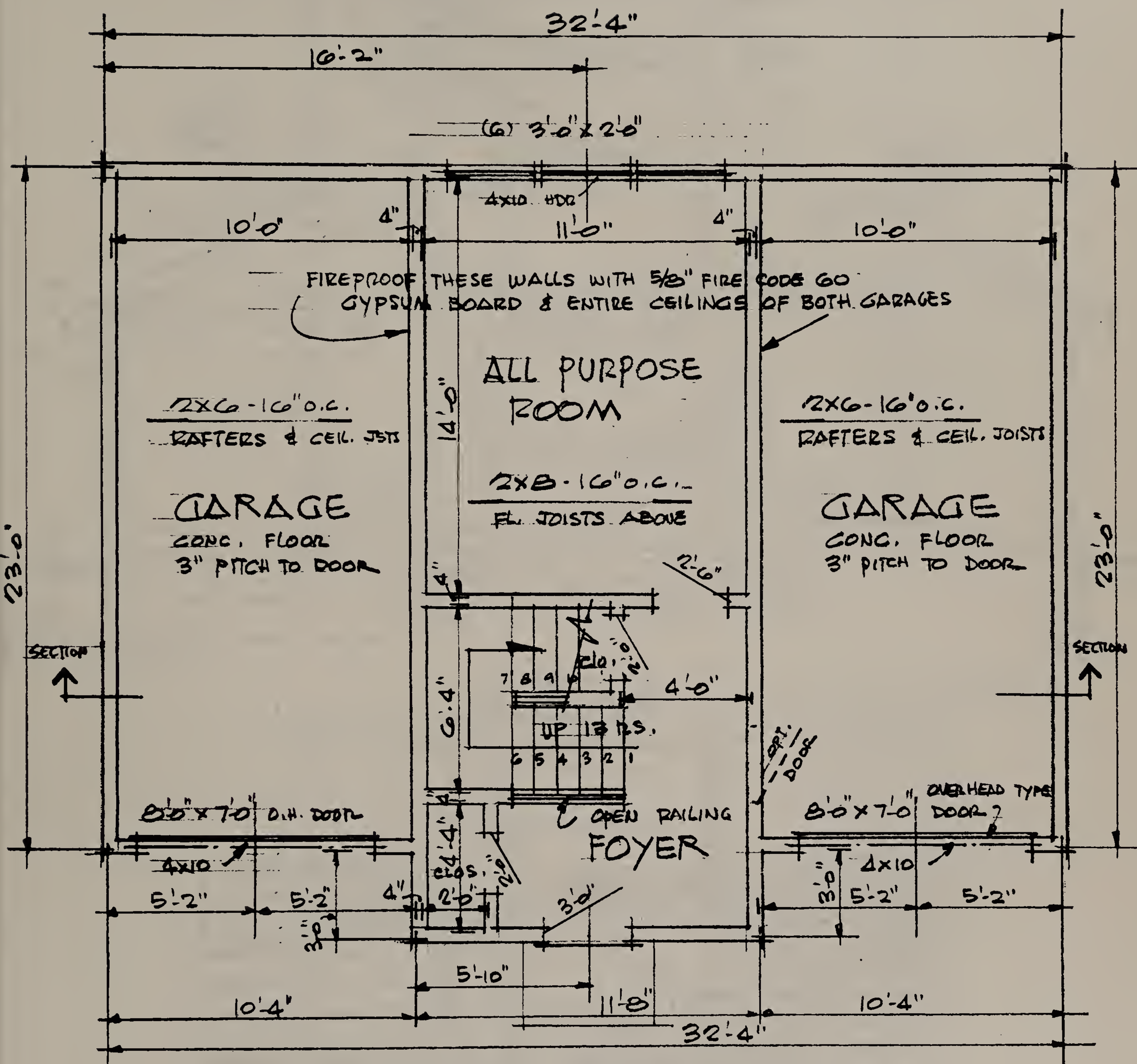
# 23.

# Western Barn Garage-Duplex

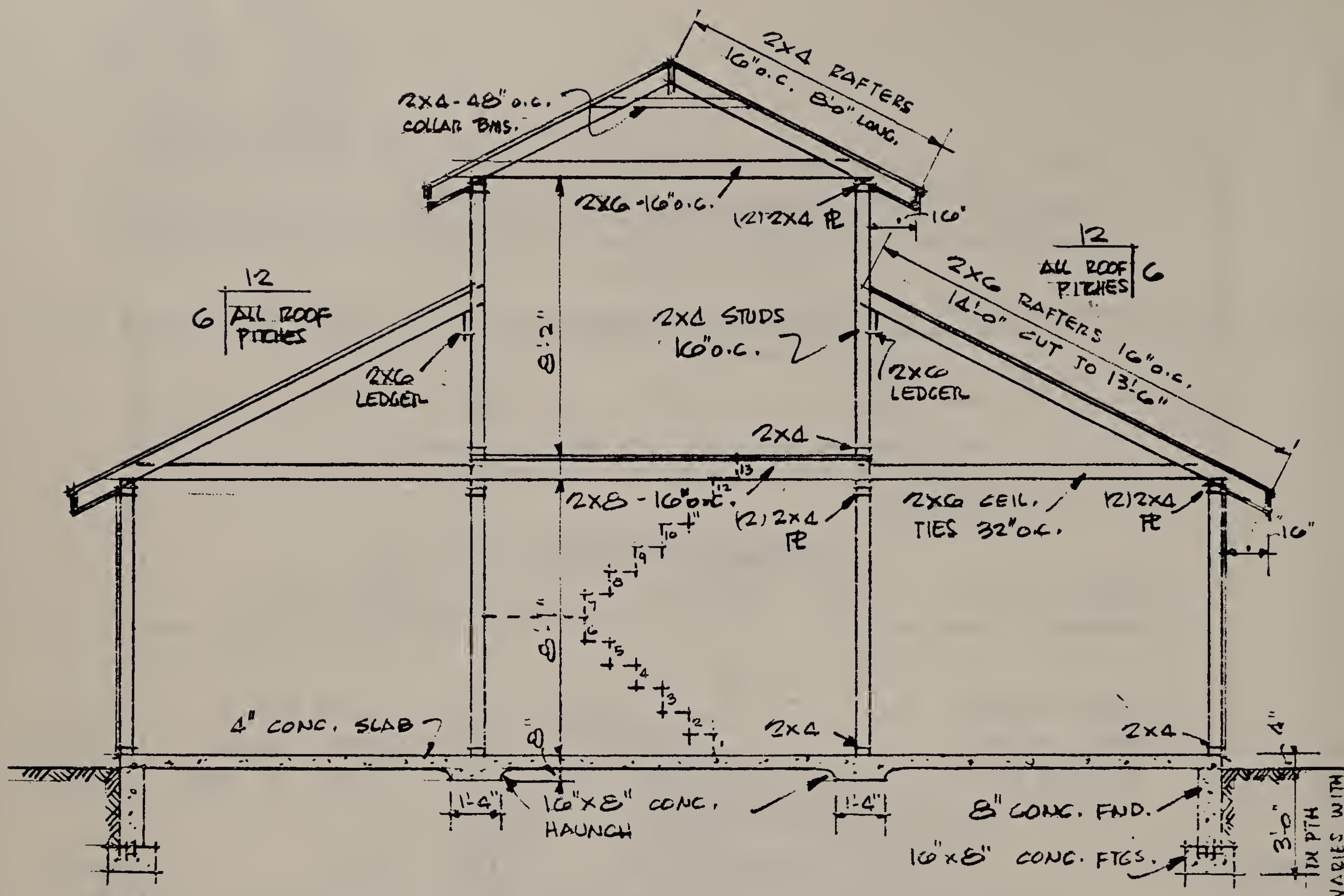
## Also a home where the buffalo roam



This barn garage solves parking problems with two one-car garages. (You can eliminate one if you like.) It also provides a center barn that can be converted into a duplex apartment. On the first floor there is an entry foyer, an 11′ x14′ room, and a wrap-around stairway. On the second floor there is a full bath and an 11′ x14′ room. The barn garage is 32′ 4″ wide, 23′ deep for each garage and 26′ deep for the center barn. Stain or paint clapboard siding.




# ·FIRST FLOOR PLAN·

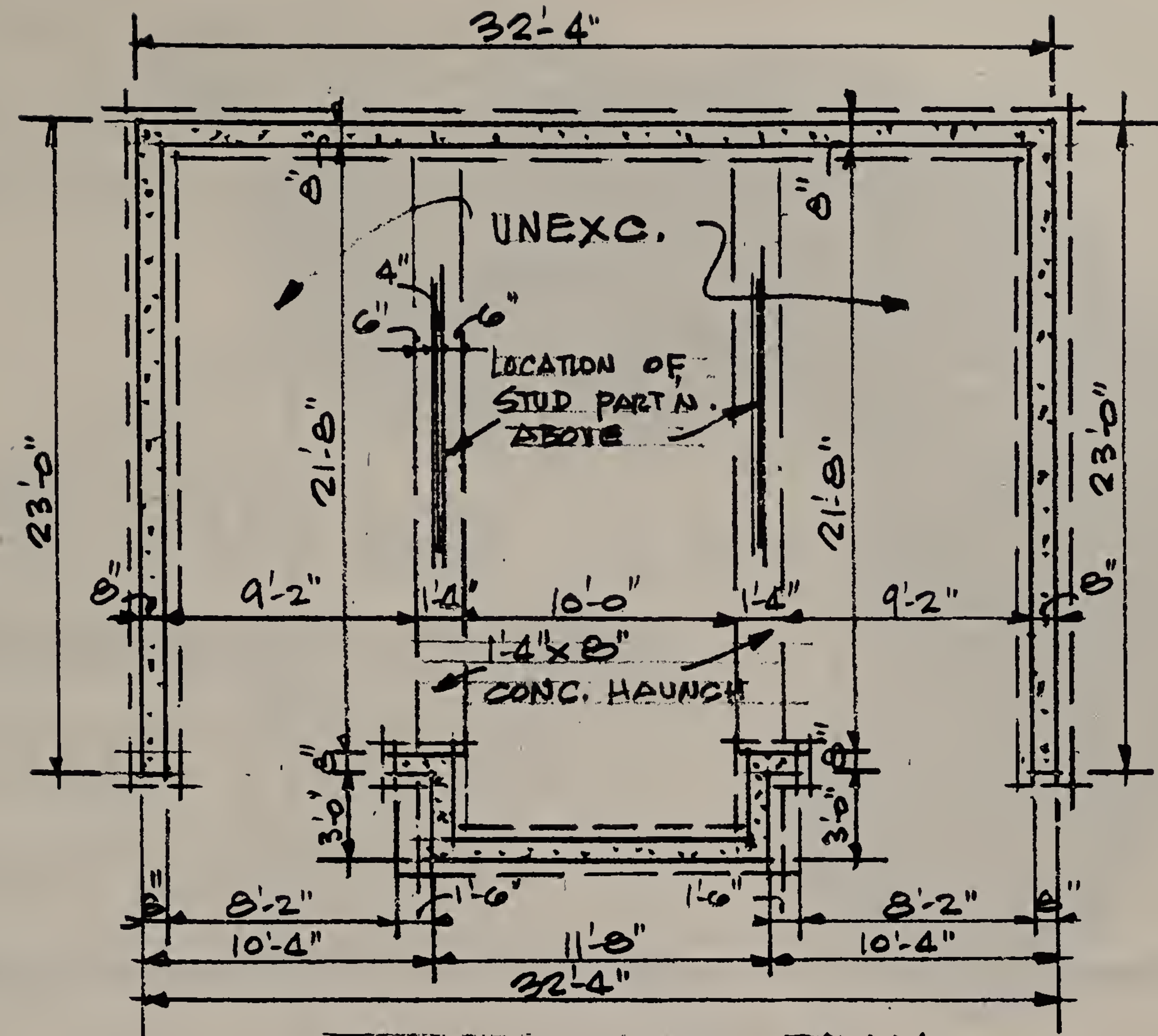



· CONSTRUCTION SECTION ·

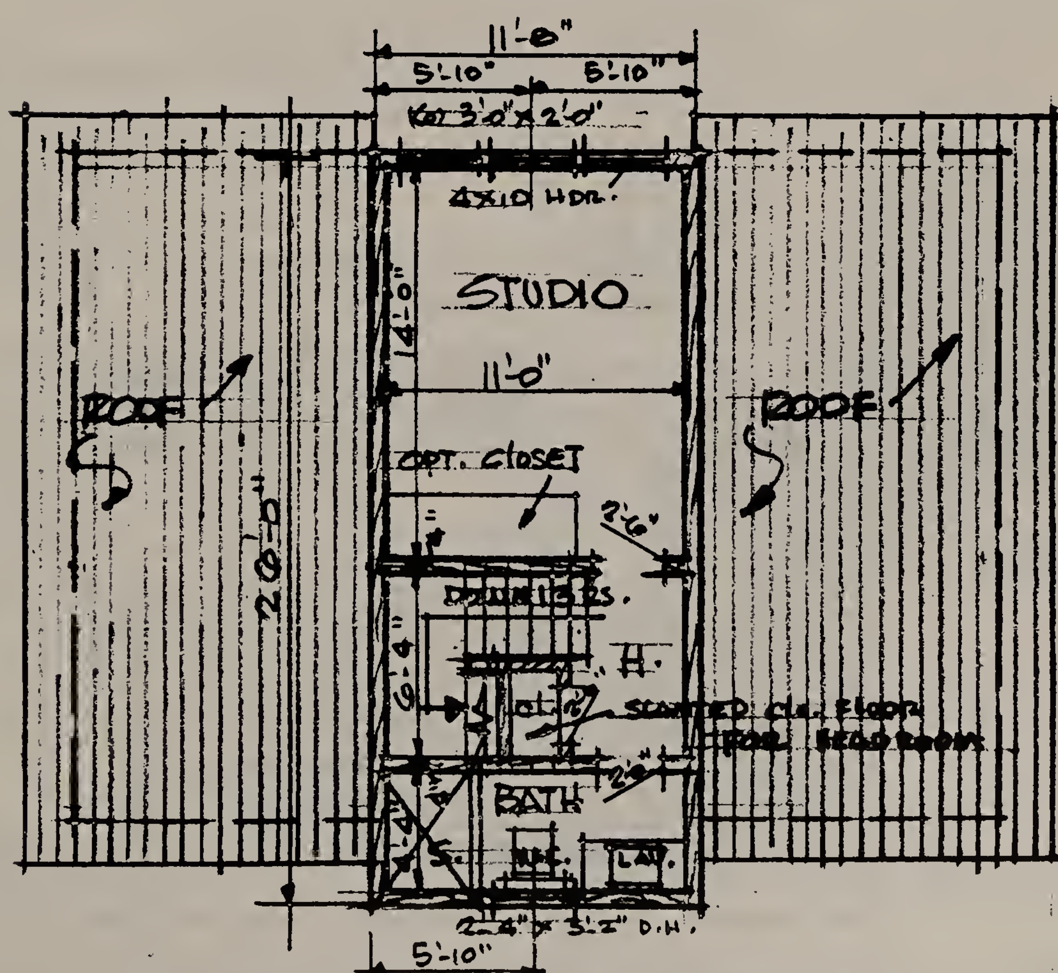
| FRAMING LUMBER LIST | | | |
|---|---|---|---|
| LOCATION | SIZE | AMT | LIN. FT. |
| STUDS | 2x4 | 240/8' | 1920 |
| PLATES & SILL | 2x4 | – | 614 |
| RAFTERS 2nd FL. | 2x4 | 44/8' | 352 |
| CEIL. JOISTS | 2x6 | 20/12' 12/11' | 372 |
| FL. JOISTS | 2x8 | 22/12 | 264 |
| LEDGER | 2x6 | (2) 23' | 46 |
| RIDGE | 2x10 | 1/29' | 29 |
| COLLAR BMS. | 2x4 | 6/4' | 24 |
| HEADER | 2x10 | 4/10' 4/9' | 76 |
| RAFTERS GAR. | 2x6 | 40/14' | 560 |

| SQ. FOOTAGE OF SHEATHING AND FINISHING MATERIALS | | | |
|---|---|---|---|
| LOCATION | DESCRIPTION | [illegible] | +10% |
| SUB-FLOOR | 1" PLYWOOD | 267.3□' | 293 |
| WALL SHEATHING | 1/2" PLYWOOD | 520□' | 572 |
| ROOF SHEATHING | 1/2" PLYWOOD | 1195□' | 1314 |

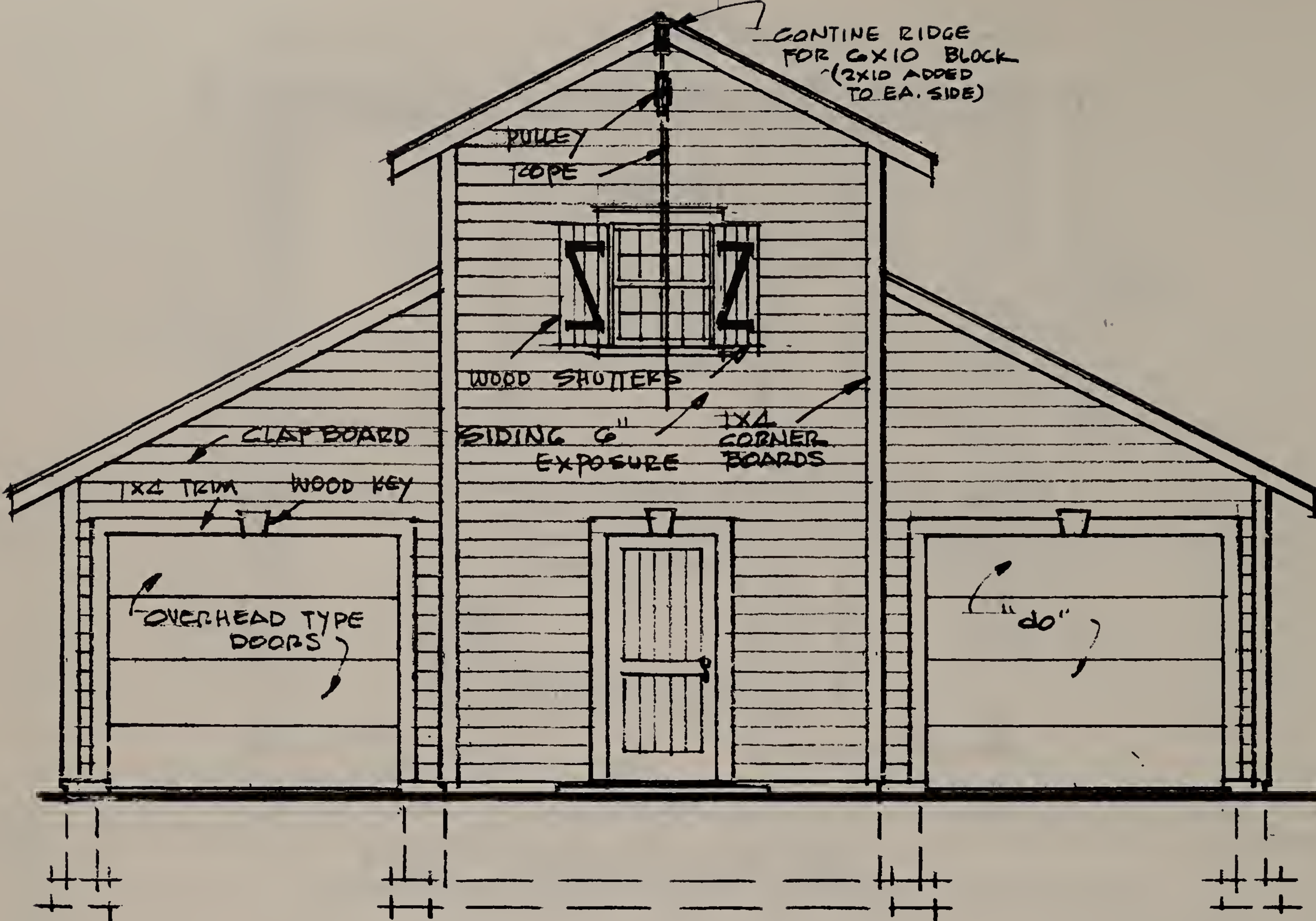
NOTE: THE WASTE FACTOR IS DETERMINED BY THE TYPE OF MATERIAL USED & THE METHOD OF INSTALLATION.



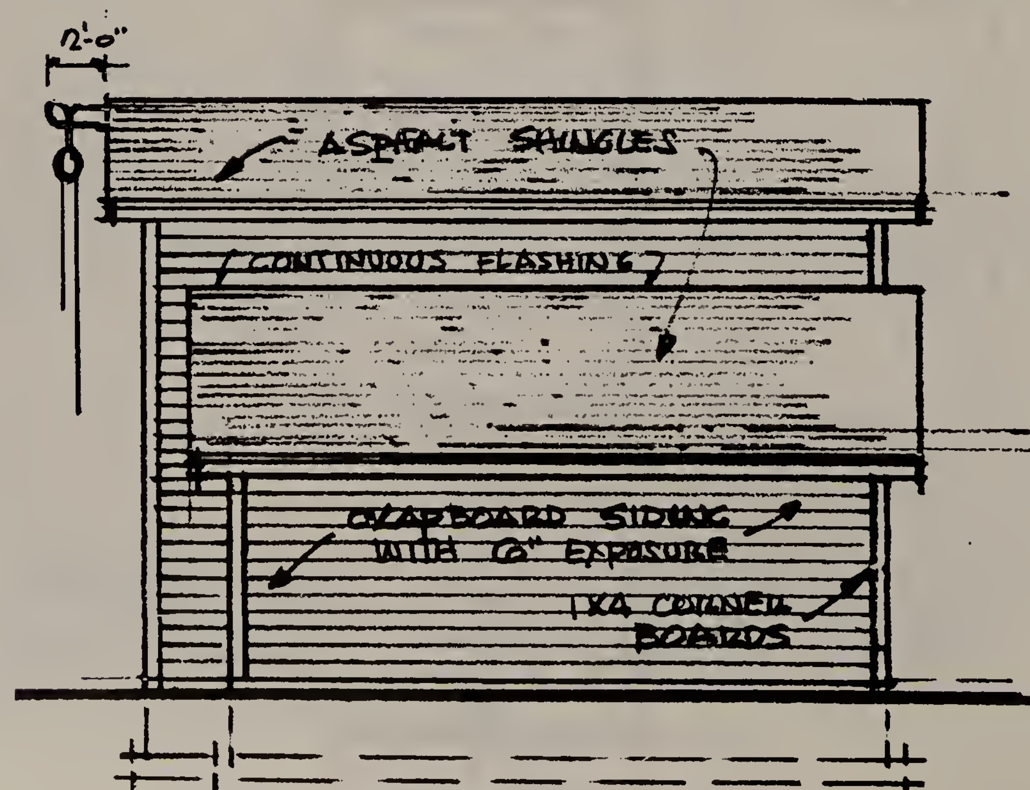

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· LOFT FLOOR PLAN ·




·FRONT ELEVATION·




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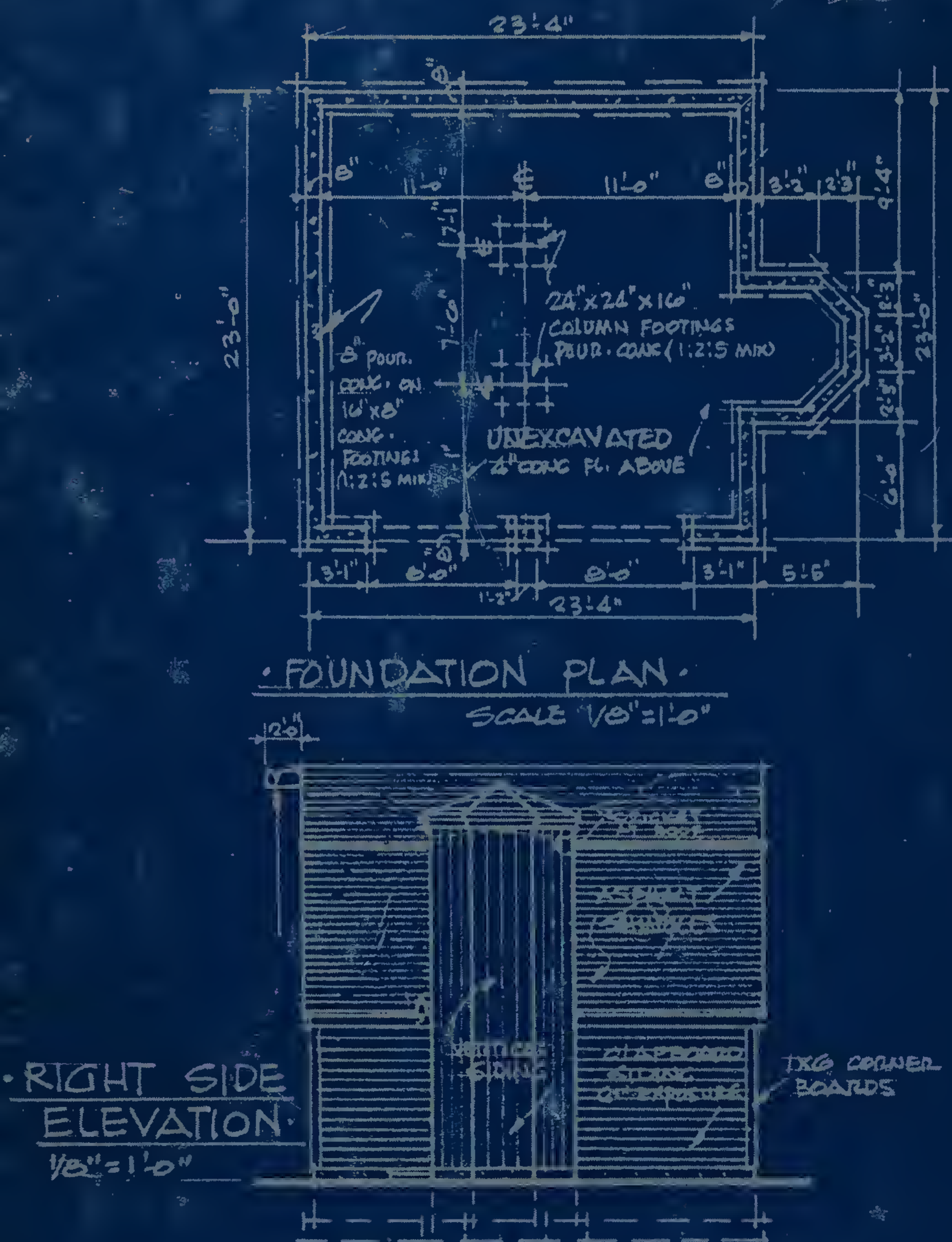
*About the Author*

Augustus Suglia, A.I.A., is a registered practicing architect with 26 years experience in residential building. Since studying at the Institute of Design and Construction in Brooklyn, he has supplied plans for several developments, varying in size from 10 to 500 houses, on Long Island. He has also designed custom homes and contributed house designs to many leading national magazines.

In addition to being a member of the American Institute of Architects and licensed by both the states of New York and New Jersey, Augustus Suglia is certified by the National Council of Architectural Registration Boards.

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